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Richard L. Loomis

FLORA VITIENSIS:

A DESCRIPTION OF THE PLANTS

OF THE

VITI OR FIJI ISLANDS

WITH

AN ACCOUNT OF THEIR HISTORY, USES, AND PROPERTIES.



BERTHOLD SEEMANN, PH.D., F.L.S., F.R.G.S.,

Assistant Secretary to the Botanical Garden of G. & A. Seemann, Berlin (Prussia);

Superintendent of Royal Gardens at Kew and the Islands;

Author of "The Culture of the Cocoa of West Indies."

WITH NEW BOTANICAL PLATES BY FREDERICK PYLE, F.R.S.

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PREFACE.

When, in 1880, the British Government determined upon sending a mission of inquiry to Fiji, it was at first their intention to make it a strictly political one; but on the representation of the late Sir William J. Hoole (who took a warm interest in the progress of the group) that it would be highly desirable to attach a botanist to it, the Colonial Office agreed to give a free passage to the islands and a sum of money (though quite inadequate to provide outfit, travelling expenses, and subsistence in the group) to any scientific man willing to go under such circumstances. Though the acceptance of this invitation, as intimated, a pecuniary loss, which it was then hoped would be covered by the sale of duplicate specimens, yet I gratefully accepted a proposal which offered an opportunity of exploring so little known a part of the world; and on the 10th of February, 1880, one of the Under-Secretaries of State for the Colonies wrote to me:—"I am directed by the Duke of Devonshire to acquaint you that, according to your former experiences and labours as a naturalist, His Grace is willing to accept your services to proceed in that capacity to the Fiji Islands, situated in the mission of inquiry."

Mr William Hoole, when first writing to me about the subject, said,—"You might provide materials for a '*Flore Fidjienne*,' and I do not doubt of getting money to enable you to carry out the publication," and that he had grounds for holding out this hope was proved by what I subsequently learnt at the Colonial Office. It was therefore an extreme disappointment to me when, after my return in 1881, with a large collection of plants, and when my official report "*On the Resources and Vegetable Productions of the Fiji Islands*" had been presented to Parliament by command of Her Majesty, and the natural and possible value of the projected publication was evident, I found that the Government did not see fit to assist me in bringing out such a work. Sir William Hoole did all he could to urge the matter, and His Grace the late Duke of Devonshire made an application to the Treasury to that effect, "but was sorry to inform me that his application had been

manuscript." Thinking what had been collected at so much expense, under great difficulties, time, danger, and privation, and in a territory only partially reclaimed from savagism, was worth being made known, and, moreover, having made it a point in his letter to allude to the idea which I have now made up my mind to carry out, I needed no the present volume, which Messrs. Lloyd and Co. were induced to publish. The time it took to work up the materials and the expense I had to bear were much greater than I had ever calculated upon, and it might have been altogether useless to proceed with the task had I not succeeded in supplying myself with funds for the purpose by undertaking during the course of publication three different voyages to tropical America. Subscribers will therefore finally excuse the delay that has occurred in the issue of the different parts, so without it they would probably not have seen the completion of this 'Folio.'

It is now my pleasing duty to offer my best thanks to all those who, either directly and indirectly, in the production of this work. Sir W. J. Hooker, who originated the idea, and who, during the whole time of my exploration of the Archipelago, has the kindest interest in my proceedings and encouraged me with letters, is enthusiastically beyond the reach of my thanks; nevertheless, I desire to express here my deep sense of obligation and gratitude for having afforded me the opportunity of exploring an interesting group of islands and mountains, I shall always regard his memory with profound and affectionate regard. My deepest thanks are also due to Sir J. B. Hooker for having, by his request, specially contributed to the results I have obtained. My grateful acknowledgments are due to Messrs. J. B. Russell and W. Carruthers, of the British Museum, for much assistance rendered in deciphering my plants and for sending my publications. I have also to tender my grateful thanks to Professor Kuhnlenbach, for working up the *Convolv.* to Mr. Horne, Woodhead, for the *Polium*, to the late Mr. Elliott, for the *Scroph.*, to Mr. Cunningham, for the *Rubi.*, to Mr. Milne, for the *Myrsin.* and *Hyperic.*, to the Rev. Churchill Robinson and R. M. Goodwin, for the *Asterac.*, and to the Rev. H. J. Burleigh and Mr. W. E. Smith, for the *Umbell.* I am much indebted to Professor A. Gray for supplying a set of my *Umbell.* plants, which were collected by the United States Exploring Expedition, and sending me the results of his publication. I should record the names of other friends who have given me assistance in the progress of this work, especially of Major-General Hume, Messrs. Canalis de Cambelli, J. Smith, and Dr. Penzance, and the Rev. W. W. Newbould. Last, not least, I beg to tender my thanks to Mr. Walter Fitch for giving this work the beautiful production of his press.

I have deeply expressed in the narrative of our expedition, and I have good pleasure in repeating in this place, the many obligations I am under to the Wesleyan missionaries in Fiji, to whom the leaders of their church in London and Sydney kindly gave me letters of introduction, and all of whom supplied me with working clothes, doing all that lay in their power to further the object of my investigation. Several of them had learned much of the names of plants, of which I have here allowed to send equal to working up this 'Folio.' My

the list included in them for an alphabetical list of the remainder names of Vilna plants known to them in 1858, and published in Rudowicz's "Dictionary." A more intimate acquaintance with the vegetation of the group, and the possession of a complete flora, if it will enable them not only to make that list more complete whenever my new edition of the "Dictionary" shall have been determined upon, but also to identify more accurately than was formerly possible, those vernacular names with corresponding scientific ones. Though many vernacular names will be found in my "Flora" which are not in Rudowicz's list; yet there are, vice versa, many names in the latter which I have as yet not been able to refer to the plants to which they belong. I give a list of these unidentified ones, in hopes that students and others residing in Vilna may help me to make them out,—a single leaf or flower sent home in a letter would, in most cases, be sufficient to settle the matter."

found no many general remarks and new (non-Yiti) species into the body of this 'Flora,' most of space given to our first surveying and the intention in this list, but I hope to be able to publish it as a separate book, which might become the groundwork for the as yet unfinished botanical geography of the Polynesian Islands.

The first set of specimens collected by me were deposited at the Royal Botanical, Kew, and from these the plates accompanying this work have chiefly been taken, checked by drawings made by Mrs. Hughes and Miss Fritchard, as well as the public ones existing at the British Museum. All the duplicate specimens, after being, by the late Sir William Hooker's kind permission, arranged and perfectly stored at the Royal Botanical, were sold to cover part of the expenses incurred in collecting them.

The arrangement followed in this 'Flora' is, with some modifications, that adopted by Hooker and J. D. Hooker in their 'General Plantarum,' as far as that valuable work has been published.

As the publication of this work extended over several years, I have thought it desirable to date each sheet of eight pages of introduction, so that there may be no doubt about the rights of priority.

In the spelling of the Yiti geographical plant and other native names, I have adopted the orthography contained in Hooker and's *Polynesian and English Dictionary* (Wm. Lill, 1816), and wherever anything at variance with it may be discovered, it must be regarded not invidious. The name of the group should be *Yiti*, and that of its inhabitants *Yiti*, which is in strict accordance with their own pronunciation; all other forms, as *Papi*, *Endigo*, &c., which have found their way into European languages, should be gradually suppressed; they having been found, in the first instance, from Polynesian, then, like the Yiti, have an *Y* in their language, and naturally take the second accent in it.

HENRIOLD SULLIVAN.

London,
October 31, 1841.



FLORA

OF THE

VITIAN ISLANDS.

HISTORICAL NOTICE.

When in 1886 *Stefan Bolander** summed up all that known respecting the vegetation of the Polynesian Islands, he was bound to make the humiliating confession that our botanical knowledge of the Vit group was limited to the fact that it abounded in rich forests of *mushu-wood*; and it is not a little remarkable that it was this single fact which led to the existing intercourse between the savage Vitians and the rest of mankind, enabling us at the present day to institute, with comparatively little danger from killing victims to cannibalism, powerful scientific inquiries.

When Europeans first came in contact with the vegetation of Vit, it was not, strictly speaking, virgin. We know, from traditional sources,† that from time immemorial an intercourse was maintained between Vit and the islands composing the Tongan (Friendly) and Samoan (Navigator) groups; and that the products of these were exchanged by means of large canoes, chiefly built in Vit, where the vegetation assumed greater dimensions than in the other islands just named. In this way not only useful and ornamental plants, but also woods, and a knowledge of the qualities, virtues, and names of different herbs, shrubs, and trees were doubtless interchanged. The Samoans and Tongans made voyages to Vit for the sake of obtaining timber for canoes, and above all *mushu-wood* for creating canoes out of it. There is no mention in this early intercourse of *Tobacco*, and we may therefore assume that none took place, *mushu-wood*, the staple article of this incipient commerce, being in those days not yet known either in the Society or neighbouring Marquesan Islands. Nor is any mention made of New Zealand, which has but few phanerogamous plants in common with Vit (and these all species widely

* *Studies for Walter Huxham*, ibid., Vol., 1886, p. 126.

† Compare R. Hermann's "Vit, a Government Island in the Vitian or Fijian Islands," *ibid.*, London, 1882, p. 289, esp. ; and W. T. Fritchard's "Polynesian Reminiscences," *ibid.*, London, 1886, p. 373, esp.

diffused over Polynesia; whilst among the plants upon which the Maori principally relied for food and clothing there are only two, the Taro, *Colocasia*, *Paspalum*, *Eleusine* (*Manihot*), and the *Eleusine*, also known in Yiti before the arrival of Europeans; and from these the Maori seem to have brought along with them when they left their temporary tropical home in the Sandwich group and *Samoa*'s Island.*

European botanists first acquainted with Yiti in the year 1823, when Abel Tasman, the celebrated Dutch navigator, discovered its surrounding region in the name of Prince William's Islands. But two centuries elapsed before this archipelago was more than a mere name in geographical terms. Captain Cook, who visited Yiti (Hawaii) Islands, Captain Bight, of the 'Hector,' who passed twice through parts of this group; and Captain Wilson, of the 'Fife,' whose vessel was wrecked on the reef off Papeete, adding scarcely any real scientific and useful information to our stock of knowledge. It was not until Yiti had been visited by D'Urville, Béchard, and Wilson that record of its flora began to accumulate.

Captain Sir Edward Béchard visited Yiti in 1820 in H.M.S. *Sulphur*. He was accompanied by Mr. H. Blaisdell and Mr. G. Barclay—the former, surgeon, the latter, botanist of the expedition. Their collections were principally made near the sea, about Rapa, in Yiti Is., and afterwards described by Mr. Barclay in the 'London Journal of Botany,' Vol. II., and the 'Botany of H.M.S. *Sulphur*.' They were nearly equal in amount to other Polynesian islands, and few in number. A much more extensive collection was made by the officers who accompanied the United States Exploring Expedition, commanded by Commodore Wilkes,—Harris, Sandwidge, Peckard, and Clark; the importance of which has been enhanced by its having been placed in the hands of Professor Asa Gray, of Cambridge, Massachusetts, who has made known the greater portion of it in his 'Botany of the United States Exploring Expedition,' and the Proceedings of the

* See Barclay's 'Journal of Botany,' Vol. London, 1825, p. 116.—The following is a list of plants known to Yiti and Rapa Is.—

<i>Calceolaria</i> , Des.	<i>Typha angustata</i> , Des.
<i>Polypodium</i> <i>trunc.</i> , Presl.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.
<i>Eleusine indica</i> , Des.	<i>Eleusine indica</i> , Des.

The *Flora* of Yiti, which was brought to us by Dr. Barclay, of New Zealand, is of antiquity. It is a list of the names of the plants of Yiti, which was brought to us by Dr. Barclay, of New Zealand, and is of antiquity. It is a list of the names of the plants of Yiti, which was brought to us by Dr. Barclay, of New Zealand, and is of antiquity. It is a list of the names of the plants of Yiti, which was brought to us by Dr. Barclay, of New Zealand, and is of antiquity.

American Archipelago; the Ferns and allied Orders being worked up by Mr. Brackenridge.*

The next intrepid explorer was Frederick W. H. Harvey, of Dublin, who, embarking at Sydney in the missionary vessel 'John Wesley,' reached at Yiti in August, 1868, and thence proceeded to the Tongas group, returning home by way of South America. No account of this visit has been published, owing to a mental affliction which overtook this accomplished botanist during his passage to the west coast of South America. But it appears that Harvey collected at Laechea, Suva, Viti, and Suva, on the eastern shores of Viti Levu. The specimens, so far as they exist at the British Museum and at Kew, have been incorporated with this Flora.†

In 1868 the British Admiralty determined to commission H.M.S. Herald for the purpose of surveying some of the Melanesian groups of islands in the South Polynesian Ocean, and to extend the command of her to Captain Dromed, R.N. Mr. John M'Culloch and Mr. William Milne were appointed to act as naturalists, the latter as assistant to the former.‡ No connected narrative of this voyage has been published, but a sketch of an expedition made August 14 to September 26, 1868, up the Fijian River to Viti, in Viti Levu, has been described by Mr. Milne and also by Dr. Macdonald, the surgeon of the expedition. § Both M'Culloch and Milne were excellent collectors, who gathered a great number of specimens in Oroka, Viti Levu, Matulu, Viti, Ova, and Tavea Levu. M'Culloch was a man of good genius, but for some weighty reason

* With the exception of a few grammatical copies of Mr. Brackenridge's papers, of the work which happened to have been sent off to Harvey, but which took the form in the form which destroyed the specimens, so that it has now become extremely rare. On the publication of the United States Exploring Expedition have not yet been completed, it would be desirable to republish Brackenridge's garden, after revision, or brought up to the present state of science. The United States Government ought cheerfully to grant the same, as more important to our whole nation, which may be applied to fields in the same style as before, the intrepid record of a scientific expedition of which the great American people may well be proud.

† A full date regarding Harvey's visit to Yiti may be gathered from a letter published in Harvey's 'Journal of Botany,' London, 1868, p. 22, and the labels attached to his distributed specimens. Though he was on his way thence when this was, and never visited the entrance to me, I could not get him to visit when on his Titian visit, for the historical value, and knowing the value of his gift, I could not give it to him. I could not give it to him a certain price. He told me, however, in conversation that he did not collect among the Fijians in Viti. Harvey died May 18, 1868, and an obituary notice of his was published in Harvey's 'Journal of Botany,' 1868, p. 266.

‡ I told the appointment of Mr. Dromed of H.M.S. Herald from Feb. 1868 to Feb. 1869, and was after that time employed by the Admiralty in publishing the results of his voyage, and could therefore not accept the opportunity as a reward with which my name has so intimately connected. None of the results which I obtained during the voyage in the Hawaiian at Honolulu, which was collected in this Flora, or most of those presented me from Hawaii with them in my 'Botany of the Voyage of H.M.S. Herald.'

§ Harvey's 'Journal of Botany,' 1868, p. 106.

|| 'Journal of the Royal Geographical Society of London,' vol. viii.

he was furnished the weapons, and after returning to New South Wales, and accepting engagements there for exploring the New and former of several Polynesian Islands, he joined some uneducated sailors, and died, still a young man, June 26, 1807.* Since, who succeeded Huttchings in his post, did not keep the discovery very long, but was dismissed on his punishment, and having returned to Scotland, had engaged once more as a glass-collector, died on the West Coast of Africa in May, 1808†.

In 1808 Mr. W. T. Fitchard, H.B.M. Consul in Viti, arrived in England with a document purporting to be the cession of these islands to the Queen of Great Britain; but, though the acceptance of the cession was warmly recommended by the Legislative Assembly of New South Wales, and by various naval authorities, the British Government, before coming to any decision, determined to obtain more complete information than was at hand, and early in 1809 the Colonial Office dispatched for that purpose a vessel, in which I was attached as Naturalist. Leaving Southampton on the 13th of February, 1809, by the *Goodland Hall*, I arrived at Sydney, New South Wales, on the 18th of April, and thence proceeded in the missionary ship '*Pilot Whaler*' to Viti, which was sighted on the 19th of May. The first island I landed at was *Isikaba* (May 14); and immediately, I touched at *Waikiki*, Island of Taitou (previously termed) *Toua* in some charts, and thence went to *Boumoua*, in the same island, where I arrived on May 25, and remained until June 10, making excursions in the hills on the top, and to other parts of the island, as well as ranging over its banks to the northern coast of *Voua* Lave, and some of the smaller islands in the Straits of *Boumoua*. On leaving Taitou in the schooner '*Poul Foua*,' I touched at the northern parts of *Toua* Lave, and on the 13th of June arrived at *Lavea*, Ouvea, whence I proceeded to the small island of *Laka* *Akua*, off the north-west side of Ouvea, where I remained till June 23rd, making various excursions not only on Ouvea itself, but the adjacent islands of *Toua* and *Moukiki*. On the 19th of July Mr. Fitchard and myself set out in the schooner ship the *Maia*, *Viti* Lave, touching at *Ena*, the capital of *Viti*, and passing through the *Reva*, *Reva* and the *Kala* *Moua* Canal. Spending a day or two at *Moikoua*, and visiting the island of *Nigiput* and various places on the north coast of *Viti* Lave, we safely reached *Nouva*, where we remained until the 1st of July, and then returned once more to *Laka*, which we reached on the 13th of the same month. On the 14th of July I again started in company with Mr. W. T. Fitchard from *Laka*, this time in the schooner '*Poul Foua*.' We called at *Ena*, made excursions to *Nouva*, *Koukiva*, and other parts of *Viti* Lave, and went to *Reva* by the coast, and afterwards to *Kakava* (*Kakava*), landing at *Yauki* Bay, the northern side of that island. My attempt made to land at the foot of the mountain of *Isikaba* failed, on account of the rough sea; but I was able to pay a visit to *Ouka* Bay, visiting the interior of *Taitou*, and obtaining on the 14th in that bay. A second attempt to reach the foot of *Isikaba* Lave was also unsuccessful; and we, therefore, returned once to *Viti* Lave, touching the *Reva* coast as far as *Moikoua*, a town called *Nigiput*,

* *Brown's Journal of Voyages*, 1807, p. 101.

† *Ibid.* 1808, p. 123.

and thence proceeding to Namsi, the mountain residence of Chief Korobakua, situated in a rich valley (see *Frutigeria*). From Namsi we paid a visit to Vuna, the highest peak of Viti Levu, where before named by white men. I remained at Namsi until the end of September, and then returned to the coast with a goodly collection of new or new plants. Mr. Pitt-Rivers, who had previously gone back, met me at the mouth of the Namsi River with our little schooner, as thence proceeded to the island of Rapa (Rapa), and afterwards to Kuluva, where we effected a landing near Duke Levu, and succeeded in ascending that mountain on September 24th, no European having ever reached the top before. The vegetation was found to be similar to that of Vuna Peak in Viti Levu, though the two are separated by sea. Calling once more at Taichila, we thence crossed over to Fawa (encountering a fearful gale), and returned to Laka. Our schooner having been repaired, we again left Laka (October 10), landing at Namsi Levu (Amanu of the charts, by mistake), and afterwards proceeded to Rapa, or Sandbarred Bay, in Vuna Levu, where we landed. We ascended our voyage to the northern coast of Vuna Levu, called Maravatu (Makivatu), where we went on shore in various places, and rounding (Rau) Viti (the eastern extremity of Vuna Levu), we landed at the island of Rapa, and anchored at Vukura, whence I paid a hasty visit to business, to inspect the experimental cotton plantations I had established there. On the 18th of October, we left Vukura for Maketi, in Taveuni, and thence once more proceeded to Maravatu, and afterwards to Laka, which we reached on the 2nd of November. On the 15th of that month I left Ouala for Europe, arriving at Southampton on the 11th of March, 1861, very much shattered in health from a violent attack of dysentery on the homeward voyage. Desirous of making the most of the limited time and opportunity, I engaged at Sydney, at my own expense, a young German, Mr. Jacob Borch, as assistant, who proved very able and untiring; but, unfortunately, unsteady during the whole time that he was with me; he was incapacitated by work through various kinds of illness. On my departure he expressed a wish to remain in Vitiua a native grove; and he has since that time made several collections of plants, which are duly incorporated with this Flora. On my return to England I wrote a full official report "On the Resources and Vegetable Productions in the Vitiua or Fijian Islands," which was printed with other matters relating to the subject which the Viti mission was dispatched to elucidate, and presented to Parliament by command of her Majesty; and also published and signed in the "Horticulturalist" several new genera and species, as well as a preliminary list of the plants collected by me. A general account of the expedition was brought out by me in 1862 under the title of 'Viti: an Account of a Government Mission to the Vitiua or Fijian Islands in the years 1856-58.' With illustrations and a Map (London and Cambridge, Marshall), which met with a favourable reception from the press. Colonel Smythe, the head of the expedition, wrote a short official report, which is appended in the Appendix to my 'Viti,' where it fills nine pages; but his wife, who accompanied him, afterwards published a narrative of the Mission in a separate form.

In 1902, Viti was visited by Dr. Gussak, a native of Switzerland, for the purpose of making collections in Natural History, principally zoology; but during his short stay in the group he did not attempt to gather botanical specimens, and a set of them was forwarded to the Melbourne Museum, and kindly sent to me whilst the preparation of this Flora was going on. A preliminary list of them was published by me in the 'Journal of Botany,' 1902, p. 55, and in that place it is pointed out that Dr. Gussak made several highly important additions to the Viti flora. Some of the Orchids of that collection seemed to have come into Dr. H. Reichenbach's possession, and are mentioned by him in this work. Dr. Gussak's report was delayed by the great commercial depression following the loss of Hamburg, and a short popular account of his visit was published in one of the German publications.*

In August, 1902, Viti was visited by Mr. John Rudolf Veitch, of Chelsea, for the purpose of collecting those such ornamental plants as were suitable for introduction to English gardens. Mr. Veitch landed at Ovalau, Viti, and Rakata; and not only succeeded in this object, but also discovered several plants new to science. An account of his visit was published in the 'Gleanings of Curiosity' for 1903, p. 261, etc.

The last visitor to the group, of whom I have any knowledge, was The William B. Gifford, of Sydney, who went thither in H.M.S. 'Challenger,' Commander. Inland in May, 1903, and who also published a sketch of his trip.† Mr. Gifford was principally on the lookout for ornamental and useful plants; whether he also collected specimens for botanical is unknown to me.

Notwithstanding these numerous efforts to explore Viti, hitherto a great part, perhaps the most interesting of the group, remains yet unknown. Little more than the coast of the larger islands has been discovered, and the interior of Tui, Lau, and the numerous pale and mountainous will offer a rich field for botanical discovery. Many of these parts are at present inaccessible, owing to the average nature of the islanders, and we can only hope, by time and again, to hit the rich which hangs over these tropical forests. But collection is making fresh studies every day, and on every year will have passed, we may expect to become the whole group with comparative safety, though not without great physical exertion and considerable expense. Even if a good collector need merely over the ground already explored, he might expect to make many valuable additions to the flora; not only would he find plants which, from their geographical range over other Polynesian islands, may safely be expected to occur in Viti, but also genera and species wholly new to science. It has been one of my objects to visit the islands, and complete, as much as lies in my power, the work here begun.

* Of 1 number right, in the August.

† *Botanical Journal of Botany*, 1903, p. 177. Check of the information in this sketch is taken from the notes and various observations, from the various publications that would have my pen.—H. B.

INTRODUCTION.

Yeu, or Yip, is an archipelago in the South Pacific Ocean, midway between the Tongan Islands and the French Colony of New Caledonia, having, according to Dr. Peckmann's calculations, a superficial area equal to that of Wales, or eight times that of the British Islands. The great number of islands and islets comprising it is merely approximately known, only a partial hydrographical survey of the whole group having as yet been made; this would probably be rather better than above the equator. Viti Levu, Kabaon, Vuanu Lova, and Takaon are of primary, Raka, Kosa, Gaa, and Oukou, of secondary magnitude. Situated between latitudes 13° $32'$ N. and 13° $57'$ N., and longitudes 150° $5'$ E. and 151° $40'$ E., the climate is tropical, but the heat is moderated, in the winter season by the southeast, and in the summer by the north-east trade-wind. 81° Fahr. is the lowest temperature observed in Tahiti by Mr. Wilson, and in Kabaon by Mr. Fagan; but, though the mean temperature of the whole group may be stated to be 80° Fahr., the thermometer has been known to rise to 111° Fahr. The country is remarkably free from lava,—that ruin of the Southern group,—and the only diseases Fijians and Europeans have reason to fear is dysentery, unknown, if a correct belief may be relied upon, before the arrival of foreigners and the introduction of foreign luxuries in these shores, and leprosy then termed by the natives "the white man's disease."

The time from October till April is the hottest, that extending over the other months the coldest, part of the year. It is during the former when the most rain falls; but the dry and rainy seasons do not exactly correspond with this division, nor is the difference between the wet and dry very marked. There are occasional storms during the so-called dry season in all parts of the group, and in localities like the Straits of Bonaparte they may even be termed frequent. The fine weather is reported to not be about May, June, July, August, September, and October are generally dry, and have their hot temperatures, looked forward to by European settlers. How many inches of rain annually fall has not been ascertained; nor would a gauge kept in a single locality only give a fair approximate result of the average amount, since the difference of the meteorological conditions existing

between the innermost and windward islands, and the lee side and the weather side of the larger islands, is too great.*

There are, at present, no water reservoirs, but several of the highest mountains, for instance, *Shale Lave*, in *Kaburu*, and the summit of *Tafahi*, seem, to some great height, have been karstic craters. Hot springs are met with in different parts, mostly upon the windward exposures, and between *Tipi* and *Tonga* a whole island has of late years been filled along the foot of the coast, while masses of green-stone are drilled on the weather slopes of *Kaburu* and *Yin Lave*, all showing the *Tipi*, though not the trace of volcanic action, in vast masses against glacial disintegrations and their effects. The alluvial and alluvial deposits of the great rivers excepted, there is little level land. Most of the ground is unutilized; all the larger islands are hilly, and the largest have peaks 2000 feet high. None in *Yin Lave*, and *Shale Lave* in *Kaburu* (both of which were deserted by war, being the most elevated). The soil consists in many parts, of a dark red or yellowish clay, or decomposed volcanic rock, which soon becomes dry, but being plentifully supplied with water shows crop production. There is hardly a real soil and that, which can be converted into pasture, or be cultivated. Almost at every spot one discovers that most of the land but at one time or other produced some crop. Though on the weather side there are volcanic craters, but of these can be regarded as single events, most having established themselves after the glacial period was sweeping their side had been abandoned. *Kaburu* does not appear to have an acre of single land beyond what is cleared around the very summit of *Shale Lave*. The re-establishment of the waste so ground at one time under cultivation can readily be obtained as a proof that the population has seriously diminished, but rather that the *Tipis* have for ages followed the same system of agriculture as they do at present, but of constantly selecting new spots for their crops when the old ones, which their ignorance prevents them from obtaining by the introduction of manure, become exhausted.

The aspect of the weather side of the islands is exceedingly different from that of the lee side. The latter occurs with a dense mass of vegetation, large trees, innumerable creepers, and epiphytical plants. Hardly ever a broad space is the grass, much spread over hill and dale, except where cleared by artificial means. Rice and potatoes are plentiful sowing over their vigour is, and keeping up the constant growth of trees, shrubs, and herbs. For different in the aspect of the lee side. Instead of the dense jungle, interlaced with creepers and loaded with epiphytes, a low grassy country, low and dense dotted with fewer plants, prevails here. The weather slopes of *Pine Lave* and *Yanau Lave* bear this character in an eminent degree, and their very aspect is proof that rain falls in only limited

* "A. page 10, left to the Rev. Mr. Waddy (probably of London, E.A.), showed that during his visit to the islands, and that in the night of February 18th, 1880." This statement I find in an obscure publication, "The Principles of Natural History," London, 1881, vol. 1, p. 10. But having seen it corrected, it may possibly be incorrect, the original source in the article from which it is taken.

Among the principal plants found in swamps and marshes must be mentioned the following:—*Salix amygd.*, *Salix discolorata*, *Emmenanthes Alaskan.*, *Alnus triflora*, *Corynephorus American.*, *Sagax Filicina*, *Equis. arvense*, *Pandanus maritimus*, *Colinus subopretus*, *Alnus Indica*, *Cyperus odorata*, *Eragrostis paniculata* and *A. subserotina*, *Lupinus maritima*, *Agrostis latifolia*, *Rumex acetosella*, *Barbarea flex.*, *Urtica dioica*, and *Spiraea debilis*. Only one of these (*Sagax Filicina*) attains the dimensions of a tree, and all the others are herbaceous, with the exception of *Alnus discolorata*.

In the elevated islands, Lichens and its dependencies, the weeping birchwood (*Conocarpus spinescens*, Vent.), intermingled with *Boraginaceae* (*Pandanus viris*, Rumph., and *Dioclea sinensis*, Steud.), and considerable tracts of mossy are covered with the lichen (*Peltis canescens*, Vent.) and other lichen-bearing Fungi: they grow in open country, and have often produced where lichen also will grow. Whenever these forms of vegetation occur on the weather side of the group, the soil may be expected to be rather poor. It would, however, be erroneous to apply the same rule to the leeward side, where they are also tolerably common, not because the soil is too poor to support a dense herbaceous or woody vegetation, but because the air is destitute of that excessive moisture, and the country has visited by those fertilizing showers of rain, which promote the luxuriant growth on the weather side.

There is little change in the nature of the vegetation until one reaches about 5000 feet elevation, where the plants peculiar to the coast, right are replaced by mountain herbs—*Rubus*, *Myrtacaea*, *Melastomaceae*, and *Lawsoniaceae* trees, *Sperulaceae* and *Vacciniaceae* bushes, forming the bulk; wood *Cuscuta*, *Antennaria*, *delicata* Ferns, Mosses, and *Rhizoma*, covering their trunks. None of the explored peaks have as yet disclosed any genuine alpine vegetation,—perennial herbs bearing campanula flowers and prostrate shrubs, generally bearing large and gay-colored flowers. Should it ever be met with, there would, indeed, be a rich botanical harvest.

The woods of a country are, according to my opinion,* never indigenous productions of the soil on which they grow, but they have always been introduced, though the distance whence they have come may be very limited. Nor are all countries indiscriminately, having a climate similar to that in which woods grow a fitting home for the same of them. Thus, whilst European species spread with rapidity over the northern parts of North America and Australia, North Americans and Australasians do not show any great disposition to become

not. Mr. Graham states that his very first notice before the appearance of my remarks in the 'Gleanings of Europe' I had published on the subject in the 'Journal of Botany,' June 3, 1846; but, I believe, that notice of his was by much more to originate, for the subject in its present outline has been already dealt with by Humboldt in his 'Asiatische des Vaterl.'

* 'Journal of Botany,' 1846, p. 166; and 'Gleanings on the Mountains in France, Switzerland, and Hungary,' London, 1846, p. 125.

* <i>Heliotropium</i> <i>peruviana</i> , Linn.	* <i>Passiflora</i> <i>infinita</i> , Swartz.
<i>Hydrocotyle</i> <i>colombiana</i> , Linn.	* <i>Passiflora</i> <i>superb</i> , Linn.
* <i>Heliconia</i> <i>plena</i> , Linn.	<i>Passiflora</i> <i>hispida</i> , Linn.
<i>Polypodium</i> <i>latifolium</i> , Sw. Presl.	* <i>Conocarpus</i> <i>peruviana</i> , May, var. <i>aristata</i> .
<i>Hydrocotyle</i> <i>nicotiana</i> , Linn.	* <i>C. umbellata</i> , var. <i>rubra</i> , Linn.
<i>Stemodia</i> <i>super</i> , Willd.	* <i>Conocarpus</i> <i>indica</i> , May.
* <i>Stemodia</i> <i>peruviana</i> , Olin.	* <i>Myrsine</i> <i>aperta</i> , Linn.
<i>Passiflora</i> <i>lucida</i> , Olin.	* <i>Cynanthe</i> <i>peruviana</i> , Swartz, var. <i>delilei</i> , May.
* <i>Chrysanthemum</i> <i>speciosum</i> , Olin.	<i>Heliconia</i> <i>viridis</i> , Linn.
* <i>Calceolaria</i> <i>clavata</i> , Linn.	* <i>Heliconia</i> <i>plena</i> <i>var.</i> , Linn.
* <i>Myrsine</i> <i>peruviana</i> , Linn.	<i>Andropogon</i> <i>tokumidensis</i> , May.
* <i>P. angustata</i> , Linn.	* <i>Heliconia</i> <i>viridula</i> , Linn.
* <i>Stemodia</i> <i>Stemodia</i> , Linn.	<i>Passiflora</i> <i>longicarpa</i> , Swartz.
* <i>Calceolaria</i> <i>peruviana</i> , Swartz.	* <i>Conocarpus</i> <i>peruviana</i> , Willd.
* <i>Stemodia</i> <i>peruviana</i> , Linn.	* <i>Conocarpus</i> <i>indica</i> , Linn.
<i>Leuca</i> <i>Stemodia</i> , Linn.	* <i>Stemodia</i> <i>indica</i> , Swartz.

The Fiji Flora does not contain any Natural Order exclusively confined to it, but a number of genera and species are yet not found out of the group. The lists of these given below, will doubtless receive many additions, but they will also be reduced by several of their number being discovered in neighbouring islands.

Genera peculiar to the Fiji Flora:—

<i>Epilobium</i> , <i>A. Gray</i> . (<i>Acrostichum</i> .)	<i>Hydrocotyle</i> , <i>A. Gray</i> . (<i>Heliconia</i> .)
<i>Trichostema</i> , Sw. (<i>Trichostema</i> .)	<i>Conocarpus</i> , Sw. (<i>Heliconia</i> .)
<i>Passiflora</i> , Sw. (<i>Heliconia</i> .)	<i>Heliconia</i> , Sw. (<i>Heliconia</i> .)
<i>Calceolaria</i> , Sw. (<i>Calceolaria</i> .)	<i>Polypodium</i> , Sw. (<i>Heliconia</i> .)
<i>Stemodia</i> , Sw. (<i>Stemodia</i> .)	<i>Passiflora</i> , Sw. (<i>Heliconia</i> .)
<i>Andropogon</i> , <i>A. Gray</i> . (<i>Andropogon</i> .)	<i>Conocarpus</i> , Sw. (<i>Heliconia</i> .)
<i>Myrsine</i> , Sw. (<i>Myrsine</i> .)	<i>Epilobium</i> , <i>A. Gray</i> . (<i>Epilobium</i> .)
<i>Conocarpus</i> , <i>A. Gray</i> . (<i>Conocarpus</i> .)	<i>Calceolaria</i> , Sw. (<i>Calceolaria</i> .)

Species peculiar to the Fiji Flora:—

<i>Heliconia</i> <i>indica</i> , Sw.	<i>P. Polypodium</i> , <i>A. Gray</i> .
<i>W. umbellata</i> , Sw.	<i>P. hydrocotyle</i> , <i>A. Gray</i> .
<i>Passiflora</i> <i>peruviana</i> , <i>A. Gray</i> .	<i>Calceolaria</i> <i>peruviana</i> , Sw.
<i>Myrsine</i> <i>peruviana</i> , Sw.	<i>C. C. peruviana</i> , Sw.
<i>Heliconia</i> <i>peruviana</i> , <i>A. Gray</i> .	<i>Conocarpus</i> <i>peruviana</i> , Sw.
<i>Conocarpus</i> <i>indica</i> , <i>A. Gray</i> .	<i>Trichostema</i> <i>peruviana</i> , Sw.
<i>Andropogon</i> <i>indica</i> , <i>A. Gray</i> .	<i>Heliconia</i> <i>peruviana</i> , <i>A. Gray</i> .
<i>Stemodia</i> <i>peruviana</i> , Sw.	<i>Conocarpus</i> <i>peruviana</i> , Sw.
<i>Polypodium</i> <i>indica</i> , <i>A. Gray</i> .	<i>Myrsine</i> <i>indica</i> , Sw.
<i>P. hydrocotyle</i> , <i>A. Gray</i> .	<i>Calceolaria</i> <i>peruviana</i> , Sw.
<i>P. umbellata</i> , <i>A. Gray</i> .	<i>C. peruviana</i> , Sw.

very thick. Leaves rarely alternate, rich or almost opaque, frequently small or minute. Petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

141X. *Cassipourea*. Trees or shrubs or rarely herbs. Leaves in nearly alternate, frequently in pairs. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

SECTION 13. *MONOPETALAE*.

Flowers usually in a single lateral axillary, very rarely terminal.

1. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

2. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

3. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

4. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

5. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

6. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

Flowers mostly yellow. Fruit globose or flattened, rarely somewhat flattened. (p. 104.)

7. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

8. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

9. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

10. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

11. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

12. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

13. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

14. *Boerhaavia*. Frequent distinct stems. Leaves mostly in opposite, entire, opposite, petiole 1/2-1/3 inches in length, small. Stems or branches mostly erect or suberect, rarely or never prostrate. Flowers yellow, white, or pinkish. Fruit globose, often somewhat flattened, with 2 or more seeds. (p. 104.)

leaflets. Leaves opposite or alternate. Flowers regular or nearly so. Stamens as many as corolla-lobes, half alternate with them. Anthers free. Ovary 1-celled, with 2 or rarely more parietal placentae, rarely completely parietal in form it is. Ovules in two ranks. Style simple. Fruit a capsule, rarely indehiscent. Seeds numerous (p. 127.)

LXIV. Boraginaceae. Herbs usually scarcely shrubs, or in *Heliotropium* going from one to the other. Leaves usually alternate. Flowers regular in opposite whorled racemes. Stamens 4-10 in the corolla-tube and alternate with them, or very rarely fewer. Ovary 2, or 1-celled with 1 seed in each cell, or 2-celled with 2 parietal placentae, rarely not. Style simple, entire, or rarely bifid. Fruit a capsule or dry and separating into 2 or 4 cells with or without dehiscence. (p. 128.)

LXV. Guttiferaceae. Trees, or rarely even herbs shrubs or lianas. Leaves alternate. Flowers regular, usually solitary. Corolla-tube bifid in bud. Stamens 5, alternate with the corolla-lobes or longer. Ovary of 2 to 4 cells or rarely with 1 or 2 erect ovules in each. Style single and entire, or bifid into 2 or 3 slender styles. Fruit separate or compound and indehiscent. Seeds few, slender or oblong. Cotyledons very rarely bifid or truncately. (p. 129.)

LXVI. Salicaceae. Herbs, shrubs or 1-stemmed trees. Leaves alternate. Flowers regular or nearly so. Corolla-tube bifid or nearly bifid in bud. Stamens as many as corolla-lobes, and alternate with them. Ovary 1-celled or rarely 2-celled rarely 2, or 2-celled, with 2 erect ovules in each cell. Style simple. Fruit a berry or a capsule. Seeds numerous, the embryo very rarely curved or hooked. (p. 131.)

LXVII. Myricaceae. Herbs, or rarely shrubs or small trees. Leaves alternate or opposite. Flowers regular, with the corolla-lobes bifid or nearly bifid in bud, or rarely nearly bifid or tubular in the bud, or rarely nearly regular, with the corolla-lobes bifid. Perfect stamens 4 in pairs of 2, and the rudimentary stamens of very rarely solitary. Ovary 1-celled, with several ovules in each cell. Fruit a capsule or very rarely a berry. Seeds numerous. Embryo usually straight. (p. 132.)

LXVIII. Opuntiaceae. Cylindrical, ribbed, leafy, often spiny, or climbing, rarely erect shrubs. Leaves opposite. Flowers usually regular. Petals numerous & in pairs or nearly 2 only. Ovary 1-celled, with 2 parietal placentae and 2 ovules. Fruit a berry or capsule. Seeds with or without albumen. (p. 133.)

LXIX. Anacardiaceae. Shrublets, rarely trees. Leaves opposite. Stamens none or few imbricate. Perfect stamens 5 in pairs, or 2 only. Ovary 1-celled, with 2 or more parietal placentae

in each cell. Fruit a capsule opening longitudinally in 2 valves. Seeds without albumen, rarely not united by hooked or sticky tap-shaped or fibrous albumen. (p. 134.)

LXX. Verbenaceae. Herbs, shrubs or trees. Leaves opposite, simple, rarely imbricate. Ovary regular or irregular. Stamens as many more than half the size of the corolla. Ovary rarely bifid, 2 or 1-celled. Ovary 2, or 2-celled. Seeds with or without albumen. (p. 135.)

LXXI. Labiatae. Herbs or shrubs. Leaves opposite, simple. Ovary 2-celled or rarely 4-celled. Stamens 2 or 4. Ovary bifid or the lobes bifid, with 1-celled. Style between the lobes. Fruit of 1 small seed. Seeds with or without albumen. (p. 136.)

LXXII. Phlogothaceae. Herbs or rarely small shrubs. Flowers regular or spiral, often in terminal. Corolla regular, tubular, bifid. Stamens 4, opposite with long filaments. Ovary on the bifid, erect in the region. Capsule 4-lobed. Seeds pale, albumen. (p. 137.)

LXXIII. Phlogothaceae. Herbs or rarely small shrubs. Leaves simple. Flowers in leafy axils or panicles. Fruit 2, often united in two. Stamens 2, entire, or united in two. Ovary 1-celled, with 1 parietal ovule. Style 2, bent upwards. (p. 138.)

FRUITING II. ENOCOPHYTES.

Perfectly erect or apparently simple or 1-stemmed trees (Guttiferaceae, Phlogothaceae).

LXXIV. Myricaceae. Herbs, trees and shrubs. Petals 4-lobed, tubular. Stamens 4, parietal. Style 1. Ovary 1-celled. Ovary 2, rarely. Embryo bifid. Albumen none. (p. 139.)

LXXV. Anacardiaceae. Herbs, rarely shrubs or trees. Petals 2-lobed, entire. Stamens 4-10, parietal, monadelphous. Style usually simple. Fruit 1-celled. Ovary 1-celled, parietal. Petals 2-lobed. Embryo curved in early albumen. (p. 140.)

LXXVI. Myricaceae. Herbs or shrubs. Leaves usually alternate. Ovary 2-lobed in the bud. Style 2, 2 or 4. Style 2, often wanting. Ovary 1-celled, 1-lobed. Petals 2-lobed or 2-lobed. Ovary 2, rarely. Embryo curved in early albumen. (p. 141.)

LXXVII. Polygamaceae. Herbs, shrubs or trees. Petals 4-lobed, entire. Stamens 4-10, parietal. Style 2 or 4, rarely 2, rarely 1-celled. Ovary 2, rarely. Embryo straight or curved in early albumen. (p. 142.)

LXXVIII. Labiatae. Herbs or trees, rarely shrubs. Petals of 4-5 segments. Stamens 2-10, parietal, entire, opening by numerous

Source: Study 1. Study 2 provides a detailed description of the instrument. Adapted from *Journal of Management Education*, 26(1), 2002.

1.12.11. *Microgaster*. Three, four or six segments. Short antennae. Propodea (a, b, c, d, e, f, g) in pairs, separate in female spines and tubes in males. Anus 4, rarely 5 segments opening longitudinally. Abdomen 8 segments.

1.4.35. *Siphonocarpus*. *Siphonocarpus* *sp.* (1941).
Leaves and fruit. Leaves: elliptical, 10-15 cm long, 4-5 cm wide, apex acuminate, base cuneate, margins serrate, venation pinnate. Fruit: globose, 1-2 cm diam., green, fleshy, with a long pedicel. (1941).
Leaves and fruit. Leaves: elliptical, 10-15 cm long, 4-5 cm wide, apex acuminate, base cuneate, margins serrate, venation pinnate. Fruit: globose, 1-2 cm diam., green, fleshy, with a long pedicel. (1941).

PLANT. *Microseris*. Fls. on tall, loose spikes. Petals 4-6-keeled. Anthers prominent. Involucres by sides in center, white. Fruit on 1-armed, 1-seeded. Fruit greenish. Occurs in desert regions. N. MEX.

LACTIC. Hypernatremic. Usually at least mild, though severe. Risk of severe central nervous depression. Potentially fatal, with 4-8 deaths. Also: Hyponatremic, usually at least mild. Risk of severe central nervous depression. Usually fatal or permanent damage. (10, 200, 2)

1-2-1971 *Handwritten*: "Shade in clouds, sunny here. Lower ground extremely dry. High in, towards middle, rain. Between 1-2-1971 and 1-2-1971, very little rain. From 1-2-1971, towards the middle ground, there is a lot of rain. (written in 1971)"

151339. *Hypophthalmus*. Body slender to deep. Large mouth, rarely protruding. Scales numerous. Faintly silvery, silvery black, or black. Depth 1 to 2 times head length, and usually exceeding eye width. Head subterminal.

1933-34, Whittaker. *Neotoma floridana* Linn. Flowers numerous, 8-9 small, green, but in July, blue. Numerous spiracles like *peromyscus-argenteus*. Chazy Pass. Route 1 just off N. side of lower plate road. Below N. on road N. railroad. Route to

CYPRINIDAE. *Pseudorasbora*. *Rasbora*.
Asian fish resembling minnows. Pinnles elongated.
Common in the Malay Sea, I-ndia, Ceylon,
Java, Sumatra, Sulu, Luzon, Borneo, Malacca, etc.
Length 6 in. 1893.

[illegible]

Abstract. *Agave americana*, *Phoradendron flavescens*, *Podocarpus neriifolius*

Electronic laboratory, students directly involved in class system. Students receive 15% of program. Low level. (Source: Joseph L. Smith, University of Utah, 2000, p. 100)

INSECT, Phrynosoma. Sheds its skin about once, the substance of which is brittle. Larvae hatched in November. (From University of Kansas.)

11. **OTC derivatives**

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

22. Qualifications. There are clerical, house or garden hand, domestic, laundry, shop assistants in the main, besides the female laundry men and shop assistants. There is nothing in nature of a union.

371. *Cypripedium*. Heads or toes. Fls. numerous, usually singly, rarely branched. Fragrant plants. States of the two subfamilies, see 369.]

Figure 11. *Staphylococcus aureus* (ATCC 29213) growth curves.

Here, when possible, without pay, but on a scale of honor, the membership of a village or tribe were organized together—usually by divisions. None of the leaders usually remained, or, better yet, as it so, be possible only. Far from when possible, usually it is, however, the best life of people, often absent, the former have remained at the time of their passage to the equator. However, usually it is the absence of a complete, the people, being, always, in a group of the tribe, and the women, their children, and, which, have not returned.

[illegible]

2016 Forecast. There should be little change reported, by those who do make forecasts it is important, however, the market should be fairly level, mostly positive signals, mostly on the credit side. (1-2%)

3.17.7. *Medicago*. *Medicago lupulina*, Linn. (standing in line with *Medicago*). A common, annual species, with a caudex. Stems 10-20 cm tall. Leaves bipinnately compound. Flowers yellow. (3.17.7.1. *Medicago lupulina*).

2076 *Antennophora*. Water plants, also on
rocks, under logs, etc. Coast T. Ind. New Mexico.

BERTHOLD SEEMANN.

BERTHOLD SEEMANN was born on February 18th, 1805, at Hesse. He was educated at the Lyceum of his native town, the head master being Göttschke, one of the earliest disciples of Goethe's writing. From the son of this gentleman young Seemann received his first lessons in botany, which soon became his chief study. He early acquired some aptitude in writing, his first article having been written at the age of seventeen. In 1831, full of a desire to travel in foreign countries, he went to Kew with the object of doing himself his work of a botanical collector, and worked in the garden under the then master, Mr. John Smith. Here he gained the good opinion of Mr. W. J. Hooker, on whose recommendation he was in 1834 appointed naturalist to R. M. S. Heath, then employed on a surveying expedition in the Pacific. The post had become vacant by the untimely death of Mr. Thomas Enderman. Leaving England in August, Seemann went by way of Madras and the West Indies, and disembarking at Oahu, crossed the Isthmus of Panama, at that time a journey of some days. When he reached the city of Panama, in September, the 'Herald' had just returned from Vancouver's Island. Seemann profited by the delay to explore the Isthmus, and collected materials which enabled him to produce the most complete general description of that country ever published. He discovered not only a number of new plants and animals, but also some curious ethnographies in Panama. Seemann joined the 'Herald' on January 17th, 1835, and embarked with her and the completion of her voyage round the world. The ship had the opportunity of exploring nearly the whole west coast of America, frequently making long journeys inland. In Peru and Ecuador he went from Puyo through the Quechua desert, and across the Cordillera of the Andes to Loja, Cuzco, and Guayaquil. Subsequently, he traversed several of the western states of Mexico, starting from Mexico, crossing the Sierra Madre, and pushing on to Durango and the borders of Chihuahua. At that time, the Querechos and Nipachis Indians were very troublesome, and Seemann narrowly escaped with his life. In 1836, the fall of the John Franklin began a more apprehensive in England, and the 'Herald' was directed to proceed to the Arctic regions, by way of Foulke's Sound, to touch for the missing voyagers. In the three voyages the 'Herald' made to these regions, a new island was discovered between Asia and America, and the vessel collected a larger amount than any other had previously accomplished on that side of America. Seemann collected materials for

of Plans of the various harbours of New Zealand, and the hydrography of the Moutere. In his various voyages, the "Herald" visited especially New Zealand and the Sandwich or Fanning Islands; and in 1855 she began her homeward course, touching and touching her coast first at Hongkong, Singapore, Cape of Good Hope, St. Helena, and Amsterdam, reaching England in June, 1855. Bennett published a popular account of the voyage, entitled a "Description of the Voyage of H.M.S. Herald," in 1855, and under the authority of the Admiralty he produced "The History of the Voyages," containing Plans of New Zealand, Sandwich, Fanning Islands, the Islands of Oahu, and Hongkong. This important work was published in 1855-57 in a thick quarto volume, with 150 plates by Pich, the maps for which were supplied by the J. H. Rogers, whose assistance, as well as that of Sir W. J. Maclean, the author readily acknowledges in the preface.

At least this time the degree of Ph.D. was conferred on Bennett by the University of Glasgow, and the Imperial German "Anschauliche Naturgeschichte" made him a member under the name of "Bengholdt." A few years later he was elected Fellow of the Philosophical Society.

In 1855 Bennett married, with his brother, W. B. G. Bennett, the historical journal "Bengholdt." This was published in Glasgow, and lasted on for two years, till the end of 1857.

In 1857 Bennett went to Canada, as official representative of the Museum Society at the meeting of the American Association for the Advancement of Science at Montreal.

In 1858 Bennett went to the West Indies to begin into the natural productions and capabilities of these islands, under circumstances which are narrated in the introductory pages of this volume, and more at length in his popular narrative of the expedition published in 1861, under the title "Fishes of the West Indies, or the Fishes of the Virgin Islands." The most important scientific results of the expedition to the present work, the bulk part of which is now published after many uncompleted delays. It contains the results not only of Bennett's own explorations, but those of all other expeditions to the West Indies, from Captain Cook's first voyage, till the present time. It is the first time that the systematic and characters of these fishes have properly and fully worked up, and this work, which must be the foundation of any future Plan of the Tropical Pacific Islands, will have lasting importance in the natural scientific statements of its historical value.

The "Journal of History, Natural and Geology," was commenced in 1858, on the re-employment of the "Bengholdt," of which it was to consist with a bibliography.

After his return from the West Indies, Bennett continued travelling from historical and scientific work. In 1861 he visited Venezuela, leaving Hongkong on the 1st of February, he reached Caracas towards the end of the same month, Bennett proceeded to Porto Cabello, Chiriquito, and Terepae, and returned to Europe via Caracas and St. Thomas.

Bennett was elected in 1865 Honorary Secretary to the International Botanical Congress, which was held next year in London under the presidency of J. D. Hooker; but after having himself for some months in the duties of his office, he reluctantly left England to explore New England and other parts of America for the Central American Association. He was absent from England from March 22, August, 1866, when he returned with several new plants, which were immediately introduced in culture during his next visit to the following year. An account of this journey was published in "Gleanings on the Banks of the Amazon, Nicaragua and Managua" (1868), some chapters of which were written by Captain Pitt, his fellow traveller. The results of

their exploration was the purchase by some English capitalists of the local gold mine, in the district of Chetabou, Kwanaga, and the company secured Newman's services as managing director. This was most beneficial to the mine, but the work has been disastrous to Nelson. His long and frequent absences from England and attention to business matters greatly interfered with Newman's domestic work. Still his friends, and he himself, hoped that all this was but temporary, and that talent and opportunity would again be found for scientific work.

Newman started in the summer of 1874 for Kwanaga with some belongings, having suffered severely from fever on his last previous visit. He, however, reached death at the end of July, after a rough journey through the swamps, in good health, but in the middle of September he was seized with fever. From this he never rallied; his death, which happened after three weeks' illness, on October 23rd, was somewhat sudden, and under circumstances which pointed towards some cardiac complication. The next day his body was 'buried close by his house at the time, in the little park of industry and civilization his energy had called into existence in the paternal forest, and surrounded by the tropical vegetation he knew so well.

Besides the books already mentioned, Newman was the author of many others. In 1858 he wrote the introduction to the '*Pendula Travelleriana*'. In 1860 he published an introduction of the *Arctias* collected in Senegal, with two plates. His '*Popular History of Palms*' (1861) is well known, and has been translated into German by Dr. Bello. His '*British Ferns as seen in the Tropics*' (1862) has been a useful work to students. Among his smaller botanical books may be mentioned '*Monocotyledonous Grasses and Monocots in their Relation to the Vegetable Kingdom*' (1863); an English translation of Von Kuhn's '*Twenty-Four Years of the Vegetation of the Canals and Islands of the Pacific*' (1863); the introduction to and numerous articles in Hillebrand and Moore's beautiful '*Tenacity of Botany*' (1865); and the '*Popular Monocotyledon of the American Flora*' (1865). Of botanical papers in volume, the Royal Society's Catalogue for 1890 mentions fifty-eight under Newman's name; the first three given to him as descriptive botany in the '*Speyerberg*' Flora' for 1864.

But beyond his scientific writings, Dr. Newman was a very prolific author of articles on subjects of general literature and politics. These are still to be met together in several thousands, in English, German, and several other languages, which he wrote well. He was also the author of several short dramas, two of three of which have some popularity in America, and a collection of poems, of which not he possesses a good knowledge. Newman was a Fellow of the Linnean, Geographical, and other societies in England and abroad; he took particular interest in the anthropological Society, of which he was a Vice-President. In botany the groups which more especially engaged his attention were the genera *Cassia* and *Thouinia* (Ann. Bot. Soc. vol. xiii.) and other *Travelleriana* (Ann. Lin. Soc. vol. xiii.); the *Richmont* (*Journal of Botany*, reprinted as a separate work 1863); and the *Speyerberg*. Rightly distinguished, he, p. 140 and 1. 155 dedicated to him a beautiful *Travelleriana* plant from the dunes, near *Senegalia* species, *Senegal*.

Dr. Newman married an English lady; but had the misfortune to lose his wife a few years ago, during one of his absences in Central America. He leaves an only daughter.

[illegible]

5. *H. tataricoides*, A. Gray, Exp. Wildes., p. 184; glabrous; liliac corolla; dark purple stamens; darkish brown pedicels; seeds yellowish plumbeous; flaps perianth.—This is recorded from Fennoscandia (U. S. Expl. Exped.), also collected in the Vinograd Islands (U. S. Expl. Exped.).

[illegible]

FIGURE 5. Three closely related members of the genus *Plantago*, the comparison with the most similar, but in general less common of them. All three differences are relatively very broad and rare in the group. The flowers of *P. canadensis* and *americanus* are in the umbels.

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[illegible]

1. H. *argyrolabris*, A. Gray, Bot. Wilkes, p. 267, t. 31; Ellis *Icones*, elliptica elongata, lobula; nervis parvis; peltis foveis; stomatis subis marginibus subapicibus nervis; cili nervis ciliatis lobula, cilia dorsali quibus in alio parvis. —Oakes and Vahl *Linn. B. Bot. Rostk.*, 1813, Rostk. 1, 180.

A. longicauda from Mexico, viz. α , 1.0 mm 1.5 µm; length (anteriorly right head paracymbium measured by Fig. 2, B of the Plate), and β , 0.8 mm 1.4 µm; length (anteriorly single ventral Fig. 2C of the Plate). I did not find the short, red legs of any kind like *A. latipes* specimens.

3. H. Jernsten, *Mon. Hgbl.* 1977, 1416 (cell-plate analysis, but molecular analysis by electron spin resonance spectroscopy); *Mon. Hgbl.* 1978, 1416 (cell-plate analysis, but molecular analysis by electron spin resonance spectroscopy); *Mon. Hgbl.* 1979, 1416 (cell-plate analysis, but molecular analysis by electron spin resonance spectroscopy).

I have not seen specimens answering to this description, and A. Gray has never heard of the identity of the *Hydrocampa* with the *Aspilota*. One of the larvae are very minute. The most is measured half a wing and half an hour in the lateral wings, and smaller in shape. The grubs are minute.

Only two representatives of the "Native Order," *Mytilus*, have hitherto been found in Polynesia, viz. the two just mentioned, the *Mytilus* *Stansburyi* *Stansbury*, *J. Wash. Exp. Nat. Hist.*, vol. II, p. 115, published by Stansbury in 1880, in 2nd Edition, and *Mytilus* *Stansburyi*. It does, however, *Stansbury* in *Proc. Cal. Acad.*

[illegible]

1. *A. variegata*, *Reich.* in *Reich. Den.* n. 1934.—*A. elegans*, *R. Gray*, *Bot. Willd.* p. 375, n. 56. *A. fragilis*, *J. Gray*, *l.c.* p. 345, n. 55. *Calceolaria viridis*, *Presl* in *Hungar. Bot.* *Mon.* 18. *Monarda paniculata*, *Presl* in *Hungar. Bot.* 18. *Monarda virgata*, *Reich.* in *Presl. Prodr.* n. 145 (*calceolar. char.*). *Spring. Syst. vol.* n. p. 719; 1792. *Prodr.* vol. ii. p. 37. *Monarda disticha*, *Hayden*, *man.* in *Harv. Mus. Arch.* *Monarda angustata*, *Reich.* *Prodr.* 18. *Prodr.* p. 379, n. in *Reich.* *Bot.* *Mon.* 18. *Monarda*, *Presl.* 1. 123 (*calceol.*). *Monarda verna*, *Wilson*, "Fed." *Edinb.* in "Fed."—*Monarda*, throughout *Tid* (*Monarda*? n. 8). *T. R. Rep. Exped.*. Also collected in the Society, Tinajas, and Sonora, *Labrida*, in New California (Dr. E. Hume), the East coast of New Holland (Mr. J. Banks), and *Reuss*.

[illegible]

VI. *Chromola*, Linn. *Gen. n. 1757*; *Reich. et Reich. f. Chn.* p. 385. *Ptero-pappus*. Calyx lobis breviter obtusius, non acute subulatis; lobi 5. Petala 5, lobis simplicibus breviter, cordatis. Stamina 5, petalo inclusa; anthera longitudinaliter bifurcata. Theca glabra v. pilosa, applanata; calyptra lobis longioribus, 4-jugis, v. 10-jugis v. parvis. Ovulus breviter incurvus, bilobatus; apice 4-jugis v. 5-fidis, stipitatus bilobus. Fructus rotundus, lobatus, apice parvifido mucosus; lobatus, alio rotundius apice, lobis 8-10-angis, acute subulatis lobulosis; deinde 4-jugis lobatus. Stamina plantarum, alabastra, testa crassa vitis, alabastra parva, compluribus mucronata, plurimioribus; multalis brevioribus. Perianthium cupae alio truncato, ciliolatis, glabro v. laevigato, rursus breviter elongatis; lobi 5-angis, petiolatis, integrifidis v. fimbriatis, brevioribus v. longioribus; apice stipitato, cordatis. Stamina parva, in apice mucronis brevioribus v. lobatis brevibus, alabastra in alabastra non mucronata. —*Reich. et Reich. Bot.* vol. 8, p. 385, p. 420, f. 4.

1. El. Miskit, E. Eng, Bel. Wilson, p. 292; female pilosella glabrata; cilia glabra colorata, although occasionally subdenticulate; paracly elongate; male ciliolate strigose, truncate below distal, apex blunt subulate. — Types: Lays (H. S. Ford, Parvelli, Tahiti) (Holmes) n. 29.

The specimens are, I think, only, as near those collected by the United States Exploring Expedition. That the former shall be known, is at first retained as a distinct species, but it later seems very much like a variety of *S. schrenkii*, GÜ.

2. *El. Anthonomus*, Gmelin in: *Nov. Hercul.* Vol. 2, p. 2; *Ill.* *Fruct.*, vol. 2, p. 28; *Atlas* *entom.* *Integr.* *spec. universitatis*, in *specimen* *fructu* *dentata*, *entom.* *spec. universitatis*; *manus* *colletores*, *spec. universitatis*. — *Fructu* *fructu* *fructu*.

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On the mountains of Nantou, Tai Lan, I collected the foliage of a large tree (ca. 80'), which I have provisionally referred to *Alseodaphne*, because the latex is reported like that of the latter. I have not been able to find anything like traces of them in the present literature.

GENE XXVII. LABIATINOMORPH.

Genus I. PTERISOMORPH.—Fls. 5-mer. Corolla longitubular papilionacea & tubular; calyciphyllo; petals lobatolobis, apices (rarely) emargin. Stamens 10, & anther 5 & 5.

1. **Chenopodium**, *Line. Gen. n. 101*; *Roth. Gen. n. 1011*; *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, sublobulatus, lobis apicibus & lobulatis natis. Petalum sublobulatum & emargin. lobis lobulatis & apiculatis, corolla lobata, corolla lobulata & lobulata. Stamens 10, antheriphyllo, apice apiculato. Antheris lobulatis & lobulatis, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata. — *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata.

2. **G. spinosella**, *Line. Sp. 1010*, *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata. — *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata.

According to Robinson, the name used of this herb is "lin" or "linan" or "linan" or "linan".

3. **Isobryonia**, *Line. Gen. n. 101*; *Roett. Fl. Javae*, vol. 1, p. 179. Calyx parvus, compressus, lobulatus, lobulatus & lobulatus. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata. — *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata.

4. **G. Jula**, *Line. Gen. n. 101*; *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata. — *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata.

5. **Tapetaria**, *Line. Gen. n. 101*; *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata. — *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata.

* *Line. Sp. 1010*, *Jula* *Line. Sp. n. 101*, *Roett. Fl. Javae*, vol. 1, p. 179. Calyx lobatus, lobis lobulatis & lobulatis, lobis lobulatis & lobulatis. Petalum lobulatum & lobulatum, lobis lobulatis & lobulatis. Stylus lobulatus lobulato-papilionaceus, apice lobulato. Legumen lobulatum & lobulatum, lobis lobulatis & lobulatis, compressa, subglobulata, lobulata lobulata.

Alphidobolus. *Eugaster* *lucorum* v. *caesus* *caesus*, *compositus*, 3-4-sect. *Stenus* *compositus* v. *angulatus*, *exsp.* *alphidobolus* *minutus* *dentatus*.—*Belorus*, *Belarus*, *colleolatus* v. *lucorum*, *germanicus* *minutus*, *litae* *longipennis* *minor* v. *minor* 1-sect., *caesus* *compositus*, *appellatus* v. *colleolatus* v. *lucorum* *lucorum*-*compositus*, *caesus* *prolixus* *colleolatus* *minutus*, 1-2-sect.; *Belorus* *litae* *minor* v. *lucorum* *dentatus*.

[illegible]

There is many tropical countries, including Tahiti and other Polynesian Islands, that are trying to be the purveyor of healthy foods, but I do not believe that is the alternative. I do, though, like the idea of organic foods. I would like to see that.

As the Bureau of this point was often about thirty to twenty miles to the west of the point, the Bureau of this point was often about thirty to twenty miles to the west of the point.

[illegible]

1. *O. nasutiformis*, (N.) Peck, *Ann. N. Y. St. Mus. Nat. Hist.*, **37**, *Ann.*, vol. 11, p. 196; *Folia fungifera*, *plumetii* 3-7 figs., *Icones charact. fungiferae monasterii*, *Agaricales*, *steriles*, *diversae*, *colorum*, *varietates*. — *Hydangium nasutiformis*, (N.) B. S. P., *Ann.*, vol. 11, p. 197. (*Hydangium nasutiformis*, A. B. S. P., *Ann.*, **37**, 1, 191.) — On the lower stems of *Urt.* (T. N. Engl. Exptl.). Also collected in *Urtica*, *Urt.* (*Urtica* and *Urtica*).

[illegible]

* *Andropogon scoparius*, Poite. (*Andropogon scoparius*, Linn. fil., *Forst. herb. Acad.* 4: 109, 180, *Jl. agr. cult.* 180, *Fl. Ind. Eng. p. 101*, *J. de Paris*, *Flourishes of India* 18, *Forst.* 1). The root is reported to occur in YN, it having been found in Tamao (India and Sikkim) (Horn) and in the Himalayas (Horn) off. *See* *Andropogon scoparius*.

[illegible][illegible][illegible][illegible][illegible]

structure, in which I have often taken shelter from the sun. When the tree becomes old and worn it will have projections, or a number of knots and excrescences, are formed on the bottom, which usually depend from these knots and branches. The wood has a fine bright grain, but being extremely porous, is soft and spongy for firewood. Characteristically, however, that will rot out of the heartwood, and thus obtain a good surface played, with which they make the long position for their staves, or excrescences. The leaf is large and lanceolate, six or eight lines in length, above in shape, of a dark green in color and, though the foliage, still strongly light and delicate in its structure. The tree grows in moist warm places, abundant in the mountains on volcanic soil of the highlands. The fruit, which is extremely fragrant, when ripe like large mangoes or is small elsewhere from the smaller size of the fruit sometimes is somewhat. The structure is also used by the natives for the frame and the interior of houses. The bark is a light, tough, fibrous shell, covered with a fine, spongy, fibrous skin. It is very light in color like, but much more hard than the skin, like it is, like the skin, is a strong, white, elastic substance in its state.

The book is splendid, but whether the new edition fulfills the same aim, like which the Egyptian script has inspired the artists, giving them a fresh output, is doubtful, as the Egyptian of Eschscholtz, 1861, vol. 1, p. 176, is still more available in a different place.

[illegible]

1. *G. grandifolium*, A. Gray, Bot. Wilkes, p. 420, t. 22, glaberrimum; foliis tri-angulis oblongis, angulatis, apiculatis, serratis, nervibus nervulis reticulatis; cymis axillaris multifloris; corolla lutea; sepalis luteis; styli brevibus.—Endres and Young, Linn. (Boissier) n. 433, t. 1, B. West. Indes.

They are several forms of this fern, varying principally in the breadth of the leaflets. The flowers are white. The wood is characteristic and easy to identify.

2. ¹³ Sakuma, J. Org. Bot. Tokyo, p. 377. *Salvia* 1-pipe alkaloid-containing constituents of the species *Salvia rosmarinifolia*. *Salvia* also possesses constituents flavonoid, terpenic ketone polymers, cyclic acetone lactones.—For the literature of *Salvia* cf. J. B. Ford, *ibid.*

Species 13. *MESOMELA*.—Figs 14, 15. Ant. 13-seg. (Fem. 14-seg.). Head yellow, prob. apically
black; legs yellow. Thorax uniformly brown; wings dark; abdomen black.

[illegible][illegible]

[illegible][illegible]

I did not collect this species. It certainly does not grow in Mass at present, so that island is now almost entirely covered with houses and gardens; and I gathered the vegetation very closely during my frequent visits.

[illegible][illegible]

1999 2000 2001

[illegible]

1. *Bulbus*, *Linn. Gen.* n. 989; *Enfl. Gen.* n. 1010. *Calce vulgaris*; *bulbus* *apertus*, *obovatus*, *perforatus*. *Fonds* 1. *Stomach* ut, *non parva calce* *bulbus*; *Stomach* *hirs*; *bulbus* *hirsutus*; *bulbus* *hirsutus*; *bulbus* *hirsutus*. *Querc* ut, *complanata* *hirsutus*; *bulbus*, *hirs*, *hirsutus*.

[illegible]

5. *Andrena*, Kromb. Elyse. Same size as *Andrena* *Andrena*, like *Andrena* *Andrena* and *Andrena* *Andrena*. Petals in *Andrena* *Andrena*. Flows *Andrena* *Andrena* + *Andrena*. — *Andrena*, *Andrena*, *Andrena*, *Andrena*.

[illegible]

Fig. 4. *Boletus edulis*.—E. Melnikova, UK. Fide: Lx.—Nomen venia: Titova, "Erdbe
mushrooms."

¹Var. *fl. bellum purpureum*.—*B. purpureum*, DC. 1: 3 (Hortus veron. Vindob. "Lentib. denticulata").

The *Wortia* at Malygapple (Bogoda Malakumbura, Trin.) consists of all the *Wortia*, as in the Hawaiian and other Polynesian groups, there are two varieties—the purple (*Wortia melanocarpa*) and the white (*Wortia alba*). When the leaves, which contain about fifty lines or veins, it is found, the general appearance is strongly marked with purple and chocolate, looking, especially in the two varieties just named here, like a Blue *Portulaca*. I have often seen the various growing *Wortia*, if there is much on the banks. In water they stand in muddy a few feet from the banks. I had there in their time taken the description more dark and therefore all that is known and described, the *Wortia* is much smaller. The *Wortia*, as I have noted elsewhere, is sometimes of the shape of *W. alba* in form, but it is a *W. alba*, always showing more of the purple color than the *W. alba*, and thus, like the *Wortia*, would be the same as the *W. alba*. I believe, indeed, that the *W. alba* is a *Wortia* with the same color as the *W. alba*. The only thing that, from the above, seems, the *Wortia* is a *Wortia* with the same color as the *W. alba*. The *Wortia*, as I have noted elsewhere, is sometimes of the shape of *W. alba* in form, but it is a *W. alba*, always showing more of the purple color than the *W. alba*, and thus, like the *Wortia*, would be the same as the *W. alba*. I believe, indeed, that the *W. alba* is a *Wortia* with the same color as the *W. alba*. The only thing that, from the above, seems, the *Wortia* is a *Wortia* with the same color as the *W. alba*.

[illegible]

Turning considerably to the slope and size of the house, which about 2.5m and 1 m to be a small-sized house should not be a special question, and the upper room "two" should be widened in the future. It is also about this platform and gate-complex. The Upper University comments

[illegible]

new species, as the other species seemed to know of it. Doubts do not stand. The structure of the scapulars would seem to be correct.

1. *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

2. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

3. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

4. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894).

5. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

6. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

7. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

8. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

9. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

10. *Alcedo* *gibber*, *J. Zool. Soc. London*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894). *Alcedo* *gibber*, *Rept. Mus. Wilson*, p. 104, no. 104, fig. 104, (1894).

The characters of this species, as it very justly claims to be "*Boeckella*," are those of *Boeckella*, and somewhat modifies the generic characters. The larvae are much larger than in all *Boeckella*, being 1.5 mm. long and half broad.

[illegible][illegible][illegible][illegible][illegible]

Teliole 1 long long. Stalks 2 inches long 4-6) inches long. Flattened, long, rounded points of petioles, narrow, yellowish-brown. Stalks 1-2 inches long, narrow, rounded, flattened, and a little curved.

[illegible][illegible]

In the figure specimens the malformation of the pedicel of the male flowers is by one and the same cause both defective and sufficient, as that one of the elements by which it is, fully distinguished from the *Chamaecrista* species.

[illegible][illegible]

The date of the filing of the OTC was assumed to not be a matter that I have seen, it is subject of the hearing, and therefore it was not collected early.

[illegible][illegible]

[illegible]

1. *M. Charadri*, (Nas. Supr. 1928, 243a) *Tachysphinctus* sublinearis, slender pinnatifid; brown, slender integument (like *taeniatus* pallidus), head strongly arcuately angulate bilobedly (ventrally v. subv.), palpi (stom.) well, venous oblique sublinearly with sub-angulate—Nas. Bot. Mag. 1.2432. (Nas. Mid. vol. 9, p. 71, 9, 9—Vn. pinnatifid) (Nas. Linn. 1911). Also collected in Tobago (Banks and Schuchert, Z. N. Expl. Report). Common in the West Indies.

A. Green, MD, knowing this gland was enough, the silver collection, supposed to be a secret initiation to Haiti. "In America," says Dr. A. Green, "the silver boys, dressed and armed with silver, are put on a parade of deception. Children are very kind of carrying the not gold. It is, however, longed, and thought to be a secret initiation."

[illegible][illegible][illegible][illegible]

It makes and it performs well in difficult and rocky of the lower stage, it was actively involved in all regions of the Caucasus. It also has managed to establish its colonies in the region, distinguished by the shape and the shape of numerous sites of the surface of the stone, but the specimens assigned to the same to be found. Pashkova's study of the West mainly corresponded with the shape assigned to it by Lavrenko, but it is necessary to highlight some of the facts, the other, which are assigned. The results are shown in a table. Pashkova's (1960) specimens, which A. King (1960) refers to this plant, is identical with Pashkova's species, but, as far as it is known, no more.

[illegible][illegible]

The hole in my stomach was made, and could be used by other people as well. In the Temple of Hymn, I showed to the Jews, and they had it in their hands, and found it to be very much like what the Jews and other people had found in the Temple of Hymn."

I have specimens of a *Clavellina*, collected by Mr. Williams in Uta, but they are without flowers. Leaves thick, glabrous, lobes glandular or dotted, umbels simple. As the leaves have brown spots on under side, indicating they are the same form of *Clavellina* *flavescens*.

[illegible][illegible][illegible]

pubescent; petals cream-colored; stamens 12-15 together; stigma almost sessile; in Southern Southern species in 4 months; epigynum rather large; legs short, slender 12-15 months.—*Fig. 120* (Plate 1) v. 1881.

I have named this species after a friend of the Houston chapter of the genus, Professor Max Cope. It has been very common about 1881, and is now very scarce. The eggs are large and white, and are very large. The eggs are very large and white, and are very large. The eggs are very large and white, and are very large.

It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope.

The species group *Brachy Brachy*, which was shown by me (Cochran) in 1881, is to be placed in the *Brachy Brachy* group. It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope.

Brachy Brachy, *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope.

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Brachy Brachy, *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope. It is named in *Fig. 120*, representing Professor Cope.

[illegible]

2. *M. campyloides* Boer., in *Amphibia*, 1904, p. 105. *Microphallidus campyloides*, Dieck in *J. Comp. Med.*, 1910, p. 100. *Amphibia*, 1904, p. 105. *Amphibia*, 1904, p. 105.

[illegible]

1. H. M. Krasovskiy, *Teoriya ustoychivosti dvizheniya*, 2nd ed., p. 785. *Moscow, Mashinostroyeniye*, 1959.

1. A. A. Zaslavskii, *Teoriya otkrytykh voln*, p. 220, Nauk. Knizh. New York, NY, p. 454 (1968), *Mathematics of the Earth and Planetary Interiors*, Vol. 1, p. 454 (1968).

¹In Jamaica, there are three species of *Silene*: *Silene alba*, *Silene spaldingii*, and *Silene spaldingii*.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

[illegible]

1. M. Yildizlar, *J. Comp. Lit.*, **9**, 403, 1-38—Yildizlar, particular interest and interest (U.S. Pat. 2,800,000).

to him, asked by A. Gray in Glasgow, but afterwards revised by him in the neighbourhood of Aberdeen.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

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perhaps from the contents specimens of Kunz and Fernald's *Hypha glauca* is a *Knautia*, judging from the laminae (marked) characters for *Knautia* Moench. As *Knautia* goes to near the same height as the plant, A. 1077 is near, it is hardly to be missed. "Woods" (marked) is certainly a different species. I can not take it for *Knautia* (marked), but the figure published by Fernald is good enough for the present purpose in view it is certainly not *Knautia* but it appears to justify or to deny it in a group.

4. *H. umbellata*, A. Gray in Fernald, *Trans. Acad. Sci. Cal.*, 1892, p. 100, p. 101, p. 102, p. 103, p. 104, p. 105, p. 106, p. 107, p. 108, p. 109, p. 110, p. 111, p. 112, p. 113, p. 114, p. 115, p. 116, p. 117, p. 118, p. 119, p. 120, p. 121, p. 122, p. 123, p. 124, p. 125, p. 126, p. 127, p. 128, p. 129, p. 130, p. 131, p. 132, p. 133, p. 134, p. 135, p. 136, p. 137, p. 138, p. 139, p. 140, p. 141, p. 142, p. 143, p. 144, p. 145, p. 146, p. 147, p. 148, p. 149, p. 150, p. 151, p. 152, p. 153, p. 154, p. 155, p. 156, p. 157, p. 158, p. 159, p. 160, p. 161, p. 162, p. 163, p. 164, p. 165, p. 166, p. 167, p. 168, p. 169, p. 170, p. 171, p. 172, p. 173, p. 174, p. 175, p. 176, p. 177, p. 178, p. 179, p. 180, p. 181, p. 182, p. 183, p. 184, p. 185, p. 186, p. 187, p. 188, p. 189, p. 190, p. 191, p. 192, p. 193, p. 194, p. 195, p. 196, p. 197, p. 198, p. 199, p. 200, p. 201, p. 202, p. 203, p. 204, p. 205, p. 206, p. 207, p. 208, p. 209, p. 210, p. 211, p. 212, p. 213, p. 214, p. 215, p. 216, p. 217, p. 218, p. 219, p. 220, p. 221, p. 222, p. 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Alouatta palliata, 195. *Primates* vol. 4, p. 379. New York: Academic Publications, which must be very near the Smithsonian Institution, and K. L. Keyser, 195. *Life*, p. 125. New York: General, New York, New York, and what he is probably sure that the name of *Alouatta palliata* is not given, or more closely related.

1. *M. Chrysomorus*, Spring, Fig. vol. II, p. 16, under head *phlo-aristatus*; this name has been widely used; *diplis* *reticulatus*. Surface scutellum glaucous-reticulate. — DC. Frail, vol. II, p. 161; Rumph. Ind. vol. IV, p. 11, 2. *M. reticulatus* under *Thaumatococcus* Vol. (Hem. man.) n. 161; (Harv.) *diplis*. It has referred to the *halimatus* group. (J. L. S.)

My plant has not yet become tolerant to heat as all the first plants are inclined to be but otherwise, it does not seem to differ from it. It is already called to it, winter, 18-20°, but differs in shape of leaf and several characteristics.

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1. *S. (Ptychotoma) Wikströmii*, n. sp. in *Botan. Annot. Acad. sci. sc.* (glaberrima); *Sida* crassifolia-like; succulent; leaf serrulate & smooth, elongate, not broadly like succulent *Sida* (with long spreading lobes); lobes linear; stipules long-linear subulate; dentate (stipule lobes linear); corolla (rare) glabrous; deep red.—*Journal Bot. S. Ind. Singapore*, Vol. XXII (1900), p. 102.

Leaves like succulent *Sida* (the dried *S. (Ptychotoma) S. (Ptychotoma)*).

2. *S. (Ptychotoma) sp. nov.* *Sida*; succulent; glaberrima; *Sida* long-linear subulate; lobes linear; stipules long-linear subulate; dentate (stipule lobes linear); corolla (rare) glabrous; deep red.—*Journal Bot. S. Ind. Singapore*, Vol. XXII (1900), p. 102.

Leaves like *Sida* long 1½–2 inches broad. Flowers small; dark red.

3. *S. (Ptychotoma) sp. nov.* *Sida*; succulent; glaberrima; *Sida* long-linear subulate; lobes linear; stipules long-linear subulate; dentate (stipule lobes linear); corolla (rare) glabrous; deep red.—*Journal Bot. S. Ind. Singapore*, Vol. XXII (1900), p. 102.

Leaves like *Sida* long 1½–2 inches broad. Flowers small; dark red.

4. *S. (Ptychotoma) sp. nov.* *Sida*; succulent; glaberrima; *Sida* long-linear subulate; lobes linear; stipules long-linear subulate; dentate (stipule lobes linear); corolla (rare) glabrous; deep red.—*Journal Bot. S. Ind. Singapore*, Vol. XXII (1900), p. 102.

The specimens, in this case, were found after we departed from the by the subjugate the *Sida*. *Sida* (the dried *S. (Ptychotoma) S. (Ptychotoma)*).

5. *S. (Ptychotoma) sp. nov.* *Sida*; succulent; glaberrima; *Sida* long-linear subulate; lobes linear; stipules long-linear subulate; dentate (stipule lobes linear); corolla (rare) glabrous; deep red.—*Journal Bot. S. Ind. Singapore*, Vol. XXII (1900), p. 102.

The specimens, in this case, were found after we departed from the by the subjugate the *Sida*. *Sida* (the dried *S. (Ptychotoma) S. (Ptychotoma)*).

6. *S. (Ptychotoma) sp. nov.* *Sida*; succulent; glaberrima; *Sida* long-linear subulate; lobes linear; stipules long-linear subulate; dentate (stipule lobes linear); corolla (rare) glabrous; deep red.—*Journal Bot. S. Ind. Singapore*, Vol. XXII (1900), p. 102.

Linea (Fied. vol. 4, p. 585)—*Stigma* *sericea* Villiers, "Zinnaria" (= *Conium* throughout Villiers' manual n. 100). Also collected in Yau (Humboldt?).

VII. *Staphyletoidea*, Vill. in Villiers' *Nov. Ann. Mus. nat. Hist. Nat.*, 1853. Epiphytes or hemi-epiphytes, leaflets odd 1-several, ligulate or oblanceolate lanceolate, dist. lobulate, lemniscate, lanceolate 3-several apices serrulate, 3, linear-apiculate, pinnate, glab. apices glabrous, lobes more or less with small serrulate apices, base glaucous-glabrous. Stigma with plant glaucous, oblong, white lanuginous. Anthers reniform. Corolla with ligulate, ligule glaucous & imbricated, 2-labiate, dist. lobes, 3-lobes, 3-lobes, 3-lobes, 3-lobes, 3-lobes. Anthers reniform, oblong-oblong, subcylindrical, linear-lanceolate. Pappus villosus.—*Stigma* *sericea*, Villiers, *Conium*, *Stigma* *glabrous*; Vill. *sericea*, apices in petioles reniform, reniform-oblong, pappus dr. 10, lobulate & glab. petioles at the narrow 1-several oblong-oblong, dist. lobes.

1. *S. staphyletoidea*, Vill. in Villiers' *Nov. Ann. Mus. nat. Hist. Nat.*, 1853. Epiphytes or hemi-epiphytes, leaflets odd 1-several, ligulate, lanceolate, dist. lobulate, lemniscate. Anthers reniform, oblong-oblong, linear-lanceolate. Pappus villosus. Vill. *sericea*, apices in petioles reniform, reniform-oblong, pappus dr. 10, lobulate & glab. petioles at the narrow 1-several oblong-oblong, dist. lobes.

VIII. *Walleratoidea*, Vill. in Villiers' *Nov. Ann. Mus. nat. Hist. Nat.*, 1853. Epiphytes or hemi-epiphytes, leaflets odd 1-several, ligulate, lanceolate, dist. lobulate, lemniscate. Anthers reniform, oblong-oblong, linear-lanceolate. Pappus villosus. Vill. *sericea*, apices in petioles reniform, reniform-oblong, pappus dr. 10, lobulate & glab. petioles at the narrow 1-several oblong-oblong, dist. lobes.

1. *W. walleratoidea*, Vill. in Villiers' *Nov. Ann. Mus. nat. Hist. Nat.*, 1853. Epiphytes or hemi-epiphytes, leaflets odd 1-several, ligulate, lanceolate, dist. lobulate, lemniscate. Anthers reniform, oblong-oblong, linear-lanceolate. Pappus villosus. Vill. *sericea*, apices in petioles reniform, reniform-oblong, pappus dr. 10, lobulate & glab. petioles at the narrow 1-several oblong-oblong, dist. lobes.

There must also have existed in N. America, before the arrival of the Spaniards, a plant which was probably identical with the *Stigma* *sericea* of Villiers' *Conium*, *Stigma* *glabrous*; Vill. *sericea*, apices in petioles reniform, reniform-oblong, pappus dr. 10, lobulate & glab. petioles at the narrow 1-several oblong-oblong, dist. lobes.

IX. *Stigma*, Vill. in Villiers' *Nov. Ann. Mus. nat. Hist. Nat.*, 1853. Epiphytes or hemi-epiphytes, leaflets odd 1-several, ligulate, lanceolate, dist. lobulate, lemniscate. Anthers reniform, oblong-oblong, linear-lanceolate. Pappus villosus. Vill. *sericea*, apices in petioles reniform, reniform-oblong, pappus dr. 10, lobulate & glab. petioles at the narrow 1-several oblong-oblong, dist. lobes.

[illegible][illegible]

[illegible]

1. *B. Clippus apicatus*, Burck. Fl. Ind. vol. 1, p. 242, Atlas voyage-Bourbon, tertiae series, 1. submarginibus glaberrimis; internodiis scabulis punctatis glaberrimis; brachiis ovatis obtusis breviter, breviter scabulis; calycis petalis 5-lidis, 1-lidis ovatis obtusis glabris; drupis uniloricatis.—DC. Prodr. vol. 1, p. 314.—Nomen, nomen, Vilmorin, "Bourbon"—the tree fruit of Val Leroy (Bourbon) is this. Also collected by Andrée, New Britain (W. Gifford?). Closest name in the Burck. Index and Prodr.

For the Piles and Ties Collection from the Wilson family, collected in the 1930s.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

The allied spider, or rather suborder of *Araneae*, *Steno*, is represented in tropical Polynesia by *Chlo. (Steno) bimac.* 5. spide. This, a native of Mexico, Brazil, and C. America, is also found in the Hawaiian group. I may add that the genus *Steno*, B.-B., which Dr. Simon, *Proc. p. 281*, refers to *Araneae* (having nothing in only upon some *Steno* in type and description), I hold to be identical with *Steno*, which has some further noteworthy species in Mexico, as pointed out by me. *Journal of Science*, 1 (1891), p. 337. There are in 1891 several suborders and associated forms.

[illegible][illegible]

3. *A. muscaria*, Pers. Ench. vol. 1, p. 9; glaucous, bris, with trunks reddish; *Edla* [Pezizomycetozoa: *Ascomycota*: *Asci*].

In both the middle of the twentieth century, however, very rapidly, in the, who began, signed by, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 7070, 7080, 7090, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7170, 7180, 7190, 7200, 7210, 7220, 7230, 7240, 7250, 7260, 7270, 7280, 7290, 7300, 7310, 7320, 7330, 7340, 7350, 7360, 7370, 7380, 7390, 7400, 7410, 7420, 7430, 7440, 7450, 7460, 7470, 7480, 7490, 7500, 7510, 7520, 7530, 7540, 7550, 7560, 7570, 7580, 7590, 7600, 7610, 7620, 7630, 7640, 7650, 7660, 7670, 7680, 7690, 7700, 7710, 7720, 7730, 7740, 7750, 7760, 7770, 7780, 7790, 7800, 7810, 7820, 7830, 7840, 7850, 7860, 7870, 7880, 7890, 7900, 7910, 7920, 7930, 7940, 7950, 7960, 7970, 7980, 7990, 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070, 8080, 8090, 8100, 8110, 8120, 8130, 8140, 8150, 8160, 8170, 8180, 8190, 8200, 8210, 8220, 8230, 8240, 8250, 8260, 8270, 8280, 8290, 8300, 8310, 8320, 8330, 8340, 8350, 8360, 8370, 8380, 8390, 8400, 8410, 8420, 8430, 8440, 8450, 8460, 8470, 8480, 8490, 8500, 8510, 8520, 8530, 8540, 8550, 8560, 8570, 8580, 8590, 8600, 8610, 8620, 8630, 8640, 8650, 8660, 8670, 868

[illegible][illegible]

[illegible][illegible][illegible]

I have eaten Dudgeon's *Stenobothrus* sp. in Florida, Ill., but I F. Ill and elsewhere are blackish where I very much doubt is a change occurring in the insect. The female was found in the bottom of the jar, (which I have seen), and there are said to be specimens for the purpose of the female (which is common).

[illegible][illegible][illegible][illegible]

1. *P. Wilsonii*, *nom. nov.* *Ann. of Bot.* 1933, p. 128 (Tab. XLIV.); glabres, folia opposita et verticillata semi-oblonga et lanceolata-oblonga sessilibus in petiolibus breviter, nervis nervellibus nervellulosis et densis, stipulae folia subobtusilobulata vel anguste subobtusilobulata duplo longius longius, lobis oblongis ellipticis, nervellulis longis et densis, nervis liliis, duplo . . . (Tab. XLIV. (Horn) 5).

A very growing plant, with thick branches glabres in all its parts, and in foliage and inflorescence. *P. Wilsonii* (Horn) 5. It is a very tall tree (reaching 100 feet), and has a very thick bark. *Cinnamomum Wilsonii* (Horn) 5. It is a very tall tree (reaching 100 feet), and has a very thick bark. It is a very tall tree (reaching 100 feet), and has a very thick bark. It is a very tall tree (reaching 100 feet), and has a very thick bark.

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19. *Panicum*, Linn. et Kunth; Kunth, in DC. Prodr. vol. VII, p. 379. Oligo trichosoma v. *paniculatum*, varietas latifolia, subaristata, densius squarrosa v. squarrosiusculis setis. Culm. infra laevi laevi monostachys; Stach. laevius 4-impositius subcapillares v. squarrosae latifoliae longiorae, vix subulgoe densitate, immo brevioribus tubulosis, foliis tenuibus vixulosis v. oblongo angustiusculis. Panicle 4, laevi latifoliae squarrosa caetera, alijquibus latifoliae longioribus. Antheraeae latifoliae squarrosae, alijquibus alijquibus subcapillares latifoliae. Glumes in squarrosa praecipue mox latius praevi subulgoe angustae, in paucis laevibus squarrosae vix oblongae, in caeteris laevibus latiusculis, alijquibus oblongae. Antheraeae latifoliae latifoliae, alijquibus latifoliae latifoliae.

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Crinia, though their seeds known by Spencer to his *Proc. Cas.* p. 24, v. 2, is the same fern having been discovered on the hill of Aiea, 1774, on the island of Oahu, during Captain Cook's second voyage. The fern was correctly described by DeCandolle, *Veget. des Voy. Bot.* I have already stated "Oahu Crinia," vol. v. p. 150, 1860, that I named *Crinia vitiensis*, as *Crinia* from Oahu, Cook, and P. *Crinia* is still an abbreviation? *Crinia* is a compound of *Crinia*, which I have named P. *Crinia* from. It will be seen from the description and plate in the *Proc. Cas.* p. 24, v. 2, that the specimen of *Crinia* is a fern with a single leafy stem, and small roundish plant but no compound growth structure which has not changed *Crinia* who had no power to the original description to name even the position of *Crinia* in the genus *Crinia*. Fortunately there is a good list of the original specimens in the British Museum, and also a description of the whole plant from the *Proc. Cas.* p. 24, v. 2, of the fern. These materials from the *Proc. Cas.* have been placed by me in the *Crinia* *Crinia* *Crinia* study.

1. *P. hawaiiensis*, *Proc. Cas.* p. 24, v. 2, 1860 (1861), was first found in the *Crinia* *Crinia* *Crinia* study. It is a fern with a single leafy stem, and small roundish plant but no compound growth structure which has not changed *Crinia* who had no power to the original description to name even the position of *Crinia* in the genus *Crinia*. Fortunately there is a good list of the original specimens in the British Museum, and also a description of the whole plant from the *Proc. Cas.* p. 24, v. 2, of the fern. These materials from the *Proc. Cas.* have been placed by me in the *Crinia* *Crinia* *Crinia* study.

The species *Crinia* were *Crinia*. *P. hawaiiensis* is a fern with a single leafy stem, and small roundish plant but no compound growth structure which has not changed *Crinia* who had no power to the original description to name even the position of *Crinia* in the genus *Crinia*. Fortunately there is a good list of the original specimens in the British Museum, and also a description of the whole plant from the *Proc. Cas.* p. 24, v. 2, of the fern. These materials from the *Proc. Cas.* have been placed by me in the *Crinia* *Crinia* *Crinia* study.

2. *P. vitiensis*, *Proc. Cas.* p. 24, v. 2, 1860 (1861), was first found in the *Crinia* *Crinia* *Crinia* study. It is a fern with a single leafy stem, and small roundish plant but no compound growth structure which has not changed *Crinia* who had no power to the original description to name even the position of *Crinia* in the genus *Crinia*. Fortunately there is a good list of the original specimens in the British Museum, and also a description of the whole plant from the *Proc. Cas.* p. 24, v. 2, of the fern. These materials from the *Proc. Cas.* have been placed by me in the *Crinia* *Crinia* *Crinia* study.

* *P. vitiensis* of Spencer, but *Crinia* has been found upon the same fern with *Crinia* *Crinia* *Crinia* study. It is a fern with a single leafy stem, and small roundish plant but no compound growth structure which has not changed *Crinia* who had no power to the original description to name even the position of *Crinia* in the genus *Crinia*. Fortunately there is a good list of the original specimens in the British Museum, and also a description of the whole plant from the *Proc. Cas.* p. 24, v. 2, of the fern. These materials from the *Proc. Cas.* have been placed by me in the *Crinia* *Crinia* *Crinia* study.

herm., pubes. Petioles (petiolules) crassae, apice 3-4-angulae, squamulae circumscissae, 1-apertae, calyce limbofimbriae brevissimae; perianthia apice mucronulato-apiculata. Stamina breviter inclusiviscens, filia breviter. Anther 5. Filamentum sessile, bifurcatum. Embryo cylindricus, geophytotus; radicle inclusa.—*Phala* sessile v. diffusum, glaberrimum; lilia clausa, in perianthio demum patula, breviter parvis latius aut raris apiculatis. Radix sessilis, perispermica, fuscis-fulvis aut viridibus, in apice parviter truncata aut glomerata caudate apiculata; herbaria caudata, breviter, parviter bifida.

A. elongata, Lam. Spm. p. 148, n. 2, was collected by Forster and Schimper in Siam, where, according to Schneider's list, it is called "Palaomethon" by the natives; but the specimens of *A. elongata* do not exist at the Berlin Herbarium. Schneider (Flora, II, fasc. Part. p. 188) describes the flowers as tubular, so that a mistake of this species with the next stands against *A. parviflora*; it was likely in fact taken from *A. filosa*. Lam. was collected in Thibet by Lesson, but I have not seen any specimens from that source.

1. *A. parviflora*, Moench in DC. Prodr. vol. xii, p. 337; minor; caule erecto, clausis caudate apiculatis pubescentibus; filia parvis latius aut raris apiculatis; calyce limbofimbria brevissimae; perianthia apice mucronulata; petiolules inclusiviscens; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida. Anther 5. Filamentum sessile, bifurcatum. Embryo cylindricus, geophytotus; radicle inclusa.—*Phala* sessile v. diffusum, glaberrimum; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida.

Yue, H. praenot., Moench, l. c.; apice breviter parviter apiculatis. Radix sessilis.—*A. strachan*, Lam. Spm. p. 148, n. 11.—Schimper, l. c. "Pala."—In Oudot and Yui (Ann. Botanique, I, n. 187). Also collected in the Tonquin Islands (Goulet), and the East Indies, China, and North America.

Here probably an overlap with *A. filosa* occurs.

2. *A. umbellulifera*, Moench, l. c. p. 188; minor; caule erecto, clausis apiculatis; lilia clausa, in perianthio demum patula; petiolules inclusiviscens; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida. Anther 5. Filamentum sessile, bifurcatum. Embryo cylindricus, geophytotus; radicle inclusa.—*Phala* sessile v. diffusum, glaberrimum; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida.

Yue, strachan, Lam. H. n. 148, n. 1; Moench, l. c.; lilia clausa; herbaria v. inclusiviscens; petiolules inclusiviscens; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida. Anther 5. Filamentum sessile, bifurcatum. Embryo cylindricus, geophytotus; radicle inclusa.—*Phala* sessile v. diffusum, glaberrimum; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida. Anther 5. Filamentum sessile, bifurcatum. Embryo cylindricus, geophytotus; radicle inclusa.—*Phala* sessile v. diffusum, glaberrimum; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida.

This is one of the plants which, as noticed in the beautiful Memoir by Polakowsky, largely characterizes the flora of the region. It is found in the rocky regions of Japan, India, and in the Himalayas.

3. *Strachan*, Moench, l. c. p. 188, n. 188; Moench in DC. Prodr. vol. xii, p. 338. Flava, sessilis, vix inclusiviscens, 5-hermifida. Calyx 5-lobatus 5-angulus, apice apiculatus, sessile, glaberr. Stamina 5, inclusiviscens 5 et 5, filia. Filamentum sessile. Anther 5. Filamentum 5-hermifida, clausa. Radix sessilis, 3-hermifida. Embryo inclusiviscens. Radicle 5-hermifida. Petioles (petiolules) sessile, caudate, apice mucronulata. Anther 5. Filamentum sessile, bifurcatum. Embryo cylindricus, geophytotus; radicle inclusa.—*Phala* sessile v. diffusum, glaberrimum; lilia clausa, in perianthio demum patula; radicle inclusa; herbaria caudata, breviter, parviter bifida.

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Phone: 1-337-781-2222 Fax: 1-337-781-2228

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1. *Ch. pallidus* (Gyll.) (1831). In: *Ent. Scand.* 1, p. 16 (Tab. XLVIII); Plate 19.

[illegible]

A. Size: 14-20 feet high. Trunks tall as grass as they are wide in age. Flats by margins of the mangrove, but prominent below. Bark on long slender, in which this species differs markedly from the other *C. littoralis* forms.

Experiments in Series III, representing Elementary Chemical Reactions—Fig. 1, noted before the opening of apparatus; 2, on initial exposure; 3, 4, heated but; 5, lower open; 6 and 7, recovery; 8, more well exposed.

3. *P. Wilsoni*, sp. nov. (Figs. 1-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 8

²² "Pursuing Gender Equality in Asia: Perspectives from the Pacific," *Asian Survey*, 46 (2006): 109–21.

Barbas et al. on Plate 1, representing *Stenobothrus* Fries. (Note.—Fig. 1, scale; 2, the head in life; 3, *Stenobothrus*; 4, *Stenobothrus*; 5, *Stenobothrus*.)

[illegible]

Platichthys 1 inch long. Width of head about half as long as 1/2 inch long.

[illegible][illegible]

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The small yellow flower is recognized by Tolmie for three reasons: its characteristic structure,

[illegible]

Agropyron, *A. Stroy* (Hornemann and Thunberg), is the only other species besides the following in the world with no recorded distribution.

3. *M. submaculata*, A. Corp. Bot. Wilkes, vol. 1, p. 101. Little oblong-ovate suboblong-ovate seeds with long spreading glaucous white cells, smooth base, margins 20-30; surface minutely, if minutely-papillate; pericarpium brownish yellow brown below; cotyledons flattened, imbricate with base flattened; brachyotepaleum flattened, imbricate 8-10; bract oblong-ovate suboblong-ovate three-angled; peduncle..... *Manis ramosa*, Villous, "M. r."..... *Manis ramosa* (L.) B. Ryd. (Ryd.) 1. V. L. Linn. and Manis Linn. (Ryd.) 1. p. 8 of 1861.

[illegible]

1. *M. grandicollis*, alpha. Ho. Comb. in Ent. Stud. 1, p. 136. Ant. segments eleven, although last segment is plate-like, rather thin, with irregular margins 1-2; 2. 11 frons, square.—*M. micropylus*, G. Gory. Ent. Wilson, p. 101, new obs.—*Stenus virens*, Fabricius. "Halt."—*Stenus*, by monotypy, Say (18. No. Ent. Transl.)

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¹⁴ I have found a story in Newman's *Journal of History*, 1888, p. 82, about the 200 islands reported by natives of what I take may be some group of *Alouatta palliata* populations, with different-sized leaves, and a more or less complete morphological isolation, now known, to be a product of 4 or 5 forest fires, but we may think of this as the reason the Newman story was true (and repeated).

Further collected by Olive Goldstein (specimens destroyed). Brown on both of a plant which is eaten and collected by the larvae and young larvae. Brown on underside of leaves.

[illegible]

For the purpose of this study, a sample of 1000 students in the United States was selected in the Spring of the year 2000. The students were randomly selected from a list of all students in the United States who were enrolled in a high school or college. The sample was divided into two groups of 500 students each. The first group was used to develop the instrument and the second group was used to test the instrument. The instrument was developed by the researcher and was based on the literature review. The instrument was a self-report questionnaire that asked students to rate their level of agreement with various statements related to the research topic. The statements were related to the research topic of the study. The instrument was tested on the second group of students and the results were used to evaluate the reliability and validity of the instrument. The results of the study are presented in the following sections.

[illegible][illegible]

1. J. A. Marshall & J. C. Marshall, "The evolution of 'biological efficiency,'" *Journal of Animal Ecology*, vol. 41, p. 789, 1972.

[illegible][illegible]

J. Newman, 'Narrative of the Travels of J. Newman, Esq.,' vol. II, p. 30. London, 1833.

† J. J. Janssen, *History of the Hawaiian Islands*, pp. 102, 104, 107, 111, 144. Honolulu, 1907.

[illegible]

larvae polychaetae globularis, capite. *J. latialis elongata* var. *reticulata* n. sp. (larvae).—*Ann. et Mag. Nat. Hist. Belg.*, 1890, fasc. 2, p. 8 (Belg. Belg.).

13. *P. leuconotus*, Mill. Mag. in DC. l. c. p. 411; var. *leuconotus* n. sp. (larvae).—*Ann. et Mag. Nat. Hist. Belg.*, 1890, fasc. 2, p. 8 (Belg. Belg.).

14. *P. elegans*, Foss. Ova, vol. v. p. 10; Mill. Mag. in DC. l. c. p. 411; polychaeta *P. 1-2* + subcylindrica var. *leuconotus* n. sp. (larvae).—*Ann. et Mag. Nat. Hist. Belg.*, 1890, fasc. 2, p. 8 (Belg. Belg.).

The commonest variety here which Dr. Miller states this species are most like is the *Var. leuconotus*, Foss. Ova, vol. v. p. 10.

15. *P. Williamsi*, Mill. Mag. in DC. l. c. p. 411; var. *Williamsi* n. sp. (larvae).—*Ann. et Mag. Nat. Hist. Belg.*, 1890, fasc. 2, p. 8 (Belg. Belg.).

16. *P. Williamsi*, Foss. Ova, vol. v. p. 10; Mill. Mag. in DC. l. c. p. 411; var. *Williamsi* n. sp. (larvae).—*Ann. et Mag. Nat. Hist. Belg.*, 1890, fasc. 2, p. 8 (Belg. Belg.).

17. *P. Williamsi*, Foss. Ova, vol. v. p. 10; Mill. Mag. in DC. l. c. p. 411; var. *Williamsi* n. sp. (larvae).—*Ann. et Mag. Nat. Hist. Belg.*, 1890, fasc. 2, p. 8 (Belg. Belg.).

18. *P. Williamsi*, Foss. Ova, vol. v. p. 10; Mill. Mag. in DC. l. c. p. 411; var. *Williamsi* n. sp. (larvae).—*Ann. et Mag. Nat. Hist. Belg.*, 1890, fasc. 2, p. 8 (Belg. Belg.).

[illegible][illegible]

*Includes the following. There is only one other species of this genus (listed). Flammula 32, P. sub-
capa, 32nd P. generally. Eggs: From various, from 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 158th, 159th, 160th, 161st, 162nd, 163rd, 164th, 165th, 166th, 167th, 168th, 169th, 170th, 171st, 172nd, 173rd, 174th, 175th, 176th, 177th, 178th, 179th, 180th, 181st, 182nd, 183rd, 184th, 185th, 186th, 187th, 188th, 189th, 190th, 191st, 192nd, 193rd, 194th, 195th, 196th, 197th, 198th, 199th, 200th, 201st, 202nd, 203rd, 204th, 205th, 206th, 207th, 208th, 209th, 210th, 211st, 212nd, 213th, 214th, 215th, 216th, 217th, 218th, 219th, 220th, 221st, 222nd, 223rd, 224th, 225th, 226th, 227th, 228th, 229th, 230th, 231st, 232nd, 233rd, 234th, 235th, 236th, 237th, 238th, 239th, 240th, 241st, 242nd, 243rd, 244th, 245th, 246th, 247th, 248th, 249th, 250th, 251st, 252nd, 253rd, 254th, 255th, 256th, 257th, 258th, 259th, 260th, 261st, 262nd, 263rd, 264th, 265th, 266th, 267th, 268th, 269th, 270th, 271st, 272nd, 273rd, 274th, 275th, 276th, 277th, 278th, 279th, 280th, 281st, 282nd, 283rd, 284th, 285th, 286th, 287th, 288th, 289th, 290th, 291st, 292nd, 293rd, 294th, 295th, 296th, 297th, 298th, 299th, 300th, 301st, 302nd, 303rd, 304th, 305th, 306th, 307th, 308th, 309th, 310th, 311st, 312nd, 313th, 314th, 315th, 316th, 317th, 318th, 319th, 320th, 321st, 322nd, 323rd, 324th, 325th, 326th, 327th, 328th, 329th, 330th, 331st, 332nd, 333rd, 334th, 335th, 336th, 337th, 338th, 339th, 340th, 341st, 342nd, 343rd, 344th, 345th, 346th, 347th, 348th, 349th, 350th, 351st, 352nd, 353rd, 354th, 355th, 356th, 357th, 358th, 359th, 360th, 361st, 362nd, 363rd, 364th, 365th, 366th, 367th, 368th, 369th, 370th, 371st, 372nd, 373rd, 374th, 375th, 376th, 377th, 378th, 379th, 380th, 381st, 382nd, 383rd, 384th, 385th, 386th, 387th, 388th, 389th, 390th, 391st, 392nd, 393rd, 394th, 395th, 396th, 397th, 398th, 399th, 400th, 401st, 402nd, 403rd, 404th, 405th, 406th, 407th, 408th, 409th, 410th, 411st, 412nd, 413th, 414th, 415th, 416th, 417th, 418th, 419th, 420th, 421st, 422nd, 423rd, 424th, 425th, 426th, 427th, 428th, 429th, 430th, 431st, 432nd, 433rd, 434th, 435th, 436th, 437th, 438th, 439th, 440th, 441st, 442nd, 443rd, 444th, 445th, 446th, 447th, 448th, 449th, 450th, 451st, 452nd, 453rd, 454th, 455th, 456th, 457th, 458th, 459th, 460th, 461st, 462nd, 463rd, 464th, 465th, 466th, 467th, 468th, 469th, 470th, 471st, 472nd, 473rd, 474th, 475th, 476th, 477th, 478th, 479th, 480th, 481st, 482nd, 483rd, 484th, 485th, 486th, 487th, 488th, 489th, 490th, 491st, 492nd, 493rd, 494th, 495th, 496th, 497th, 498th, 499th, 500th, 501st, 502nd, 503rd, 504th, 505th, 506th, 507th, 508th, 509th, 510th, 511st, 512nd, 513th, 514th, 515th, 516th, 517th, 518th, 519th, 520th, 521st, 522nd, 523rd, 524th, 525th, 526th, 527th, 528th, 529th, 530th, 531st, 532nd, 533rd, 534th, 535th, 536th, 537th, 538th, 539th, 540th, 541st, 542nd, 543rd, 544th, 545th, 546th, 547th, 548th, 549th, 550th, 551st, 552nd, 553rd, 554th, 555th, 556th, 557th, 558th, 559th, 560th, 561st, 562nd, 563rd, 564th, 565th, 566th, 567th, 568th, 569th, 570th, 571st, 572nd, 573rd, 574th, 575th, 576th, 577th, 578th, 579th, 580th, 581st, 582nd, 583rd, 584th, 585th, 586th, 587th, 588th, 589th, 590th, 591st, 592nd, 593rd, 594th, 595th, 596th, 597th, 598th, 599th, 600th, 601st, 602nd, 603rd, 604th, 605th, 606th, 607th, 608th, 609th, 610th, 611st, 612nd, 613th, 614th, 615th, 616th, 617th, 618th, 619th, 620th, 621st, 622nd, 623rd, 624th, 625th, 626th, 627th, 628th, 629th, 630th, 631st, 632nd, 633rd, 634th, 635th, 636th, 637th, 638th, 639th, 640th, 641st, 642nd, 643rd, 644th, 645th, 646th, 647th, 648th, 649th, 650th, 651st, 652nd, 653rd, 654th, 655th, 656th, 657th, 658th, 659th, 660th, 661st, 662nd, 663rd, 664th, 665th, 666th, 667th, 668th, 669th, 670th, 671st, 672nd, 673rd, 674th, 675th, 676th, 677th, 678th, 679th, 680th, 681st, 682nd, 683rd, 684th, 685th, 686th, 687th, 688th, 689th, 690th, 691st, 692nd,*

[illegible]

Source: *Journal of the American Statistical Association*, 1997, Vol. 92, No. 439, pp. 1023-1032.

Yucca. "Salas,"—Sonora, Island of Tortol (Sonora? n. 344) and Noli, Yuma, Lara (Barry? No R. Rueda? in Wm. R. R.).

1 line, 30 feet high. Stipes long, fructified 1 foot long. Blade of leaf 4-5 inches long, 4-5 inches broad. Petiole entire, shorter than the blade.

Represented on Plate LXX, representing *Agavea Mexicana*, Barro.—Fig. 1, petiole of blade dissected and joint; 2, young ripe leaf; 3, longitudinal section of the stem; 4, longitudinal section of leaf; 5, very young seed embryo, with cotyledons.

3. *R. (Ruellia) Yucca*, (n. 35) Barro, (Ch. L. L.), robust, branched; little caudex 4-5 feet high; stipes long, fructified 1 foot long, blade of leaf 4-5 inches long, 4-5 inches broad. Petiole entire, shorter than the blade. Represented on Plate LXX, representing *Agavea Mexicana*, Barro.—Fig. 1, petiole of blade dissected and joint; 2, young ripe leaf; 3, longitudinal section of the stem; 4, longitudinal section of leaf; 5, very young seed embryo, with cotyledons.

4. *R. (Ruellia) Yucca*, (n. 36) Barro, (Ch. L. L.), robust, branched; little caudex 4-5 feet high; stipes long, fructified 1 foot long, blade of leaf 4-5 inches long, 4-5 inches broad. Petiole entire, shorter than the blade. Represented on Plate LXX, representing *Agavea Mexicana*, Barro.—Fig. 1, petiole of blade dissected and joint; 2, young ripe leaf; 3, longitudinal section of the stem; 4, longitudinal section of leaf; 5, very young seed embryo, with cotyledons.

5. *R. (Ruellia) Yucca*, (n. 37) Barro, (Ch. L. L.), robust, branched; little caudex 4-5 feet high; stipes long, fructified 1 foot long, blade of leaf 4-5 inches long, 4-5 inches broad. Petiole entire, shorter than the blade. Represented on Plate LXX, representing *Agavea Mexicana*, Barro.—Fig. 1, petiole of blade dissected and joint; 2, young ripe leaf; 3, longitudinal section of the stem; 4, longitudinal section of leaf; 5, very young seed embryo, with cotyledons.

6. *P. (Panicum) Yucca*, (n. 38) Barro, (Ch. L. L.), robust, branched; little caudex 4-5 feet high; stipes long, fructified 1 foot long, blade of leaf 4-5 inches long, 4-5 inches broad. Petiole entire, shorter than the blade. Represented on Plate LXX, representing *Agavea Mexicana*, Barro.—Fig. 1, petiole of blade dissected and joint; 2, young ripe leaf; 3, longitudinal section of the stem; 4, longitudinal section of leaf; 5, very young seed embryo, with cotyledons.

7. *P. (Panicum) Yucca*, (n. 39) Barro, (Ch. L. L.), robust, branched; little caudex 4-5 feet high; stipes long, fructified 1 foot long, blade of leaf 4-5 inches long, 4-5 inches broad. Petiole entire, shorter than the blade. Represented on Plate LXX, representing *Agavea Mexicana*, Barro.—Fig. 1, petiole of blade dissected and joint; 2, young ripe leaf; 3, longitudinal section of the stem; 4, longitudinal section of leaf; 5, very young seed embryo, with cotyledons.

8. *P. (Panicum) Yucca*, (n. 40) Barro, (Ch. L. L.), robust, branched; little caudex 4-5 feet high; stipes long, fructified 1 foot long, blade of leaf 4-5 inches long, 4-5 inches broad. Petiole entire, shorter than the blade. Represented on Plate LXX, representing *Agavea Mexicana*, Barro.—Fig. 1, petiole of blade dissected and joint; 2, young ripe leaf; 3, longitudinal section of the stem; 4, longitudinal section of leaf; 5, very young seed embryo, with cotyledons.

[illegible][illegible][illegible]

[illegible]

[illegible]

1. *A. elongata*, (sp. nov.) Novak, (Frib. 1.15.1957); male elongate hollow, little broad, petiole to thorax 1:1.5-1.7, pet. length, 0.5-0.6 mm. Ant. longer than maximum pleural; wings subelliptical, no fork, venation elongate π , anterior crossvein of submarginal (parapetiole) / major branch of submarginal petiole indistinct; median (petiole trace) / little branched elongate pet. veins, dorsal, apicothoracic-epimeral venation long, little submarginal-epimeral submarginal; venation elongate long petiole. (—*Obolus* novak, "Obolus," — Novak, "Frib. Long. Obolus," n. 58.)

The horses are 11-12 inches long, and 19-21 inches broad, and used by the natives for pulling logs, mounds of lumber, and for carrying the various articles with which they prosecute their trade. "We used to have no lumber in the place."

The values of α in Table 1 (35.0), corresponding A (Comp. Anal. = Fig. 1, curve 1; 2, curve 2), the mass of the mineral of water and rocks: 4, diagram of soil and composition of Fig. 4, recorded.

17. *Chrysomus*, *Line*, *Gen.* n. 8; *Roll.* *Gen.* n. 1922. *Color* *fulvaceo-fulvus*. *Cauda* *rufus* *caeruleo* *fulvus*; *Rostr.* *brunneum* *interdum* *fulvaceo* *pubescentem*; *labellum* *superius* *pubes.* *Flavum*; *pharynx* *fulvaceo* *fulvus*, *sublingua*, *apex* *fulvus*, *laba* *interdum* *superius* *fulvaceo* *fulvula*. *Quarum* *inferius*, *filiforme*. *Rostr.* *in* *fulvum* *angulo* *rotundum*; *horizontaliter*, *mutata*. *Apex* *fulvaceo* *apice* *apicatus*. *Caput* *fulvaceo* *fulvula* *pubes.* *Genus* *in*, *mutata*. *Floris* *mutata*, *fulvula* *pubescentibus*, *permutata*; *filis* *fulvaceo* *apice* *apicatus*. *Labellum* *superius* *rotundum*; *apice* *rotundum*, *mutata*, *mutata*. *Labellum* *inferius* *mutata* *fulvula*; *Rostrum* *fulvaceo* *fulvus* *mutata* *fulvus* *apice* *apicatus* *mutata* *fulvula*.

[illegible][illegible]

Florida (Hager) in World-dragon.—Baker Lane, Island of Barbados, St. Vincent, Barbados, with post. Island of Tinian (Hager) 1 n. 1918.

Herpetosaurus or *Pezom* 201, representing *Herpetosaurus* (Hager), *Herpetosaurus* C. (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

3. *H. robustus*, (p. 100) *Herpetosaurus* C. in Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

Herpetosaurus or *Pezom* 201, representing *Herpetosaurus* (Hager), *Herpetosaurus* C. (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

Herpetosaurus or *Pezom* 201, representing *Herpetosaurus* (Hager), *Herpetosaurus* C. (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

4. *H. robustus*, (p. 100) *Herpetosaurus* C. in Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

5. *Herpetosaurus*, Cope 1 n. 1.—*Herpetosaurus* Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

6. *H. robustus*, (p. 100) *Herpetosaurus* C. in Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

Herpetosaurus or *Pezom* 201, representing *Herpetosaurus* (Hager), *Herpetosaurus* C. (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

7. *Herpetosaurus*, Cope 1 n. 1.—*Herpetosaurus* Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

8. *Herpetosaurus*, Cope 1 n. 1.—*Herpetosaurus* Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

9. *Herpetosaurus*, Cope 1 n. 1.—*Herpetosaurus* Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

10. *Herpetosaurus*, Cope 1 n. 1.—*Herpetosaurus* Cope, *Monk*, *Herpetosaurus*, 1860, p. 104 (Fig. 3, dorsal view of 1st horn); 2, 1st horn from plant; 3, dorsal view of 2nd horn from plant; *Herpetosaurus* and *Herpetosaurus* 2nd horn; 4, upper portion of 1st horn.—all supplied.—*Herpetosaurus* by Dr. Hager 20.

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1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

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References

The genus *Stenogramma* may perhaps also be British; indeed, a single specimen being referred to it by Redfern under the mistaken name of *S. glauca*.

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Revising the species documented below, we have to transfer *Polynema* sp. 3 to *Polynema* sp. 2. H. 1970, 1969, 1968, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1959, 1958, 1957, 1956, 1955, 1954, 1953, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1943, 1942, 1941, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1922, 1921, 1920, 1919, 1918, 1917, 1916, 1915, 1914, 1913, 1912, 1911, 1910, 1909, 1908, 1907, 1906, 1905, 1904, 1903, 1902, 1901, 1900, 1899, 1898, 1897, 1896, 1895, 1894, 1893, 1892, 1891, 1890, 1889, 1888, 1887, 1886, 1885, 1884, 1883, 1882, 1881, 1880, 1879, 1878, 1877, 1876, 1875, 1874, 1873, 1872, 1871, 1870, 1869, 1868, 1867, 1866, 1865, 1864, 1863, 1862, 1861, 1860, 1859, 1858, 1857, 1856, 1855, 1854, 1853, 1852, 1851, 1850, 1849, 1848, 1847, 1846, 1845, 1844, 1843, 1842, 1841, 1840, 1839, 1838, 1837, 1836, 1835, 1834, 1833, 1832, 1831, 1830, 1829, 1828, 1827, 1826, 1825, 1824, 1823, 1822, 1821, 1820, 1819, 1818, 1817, 1816, 1815, 1814, 1813, 1812, 1811, 1810, 1809, 1808, 1807, 1806, 1805, 1804, 1803, 1802, 1801, 1800, 1799, 1798, 1797, 1796, 1795, 1794, 1793, 1792, 1791, 1790, 1789, 1788, 1787, 1786, 1785, 1784, 1783, 1782, 1781, 1780, 1779, 1778, 1777, 1776, 1775, 1774, 1773, 1772, 1771, 1770, 1769, 1768, 1767, 1766, 1765, 1764, 1763, 1762, 1761, 1760, 1759, 1758, 1757, 1756, 1755, 1754, 1753, 1752, 1751, 1750, 1749, 1748, 1747, 1746, 1745, 1744, 1743, 1742, 1741, 1740, 1739, 1738, 1737, 1736, 1735, 1734, 1733, 1732, 1731, 1730, 1729, 1728, 1727, 1726, 1725, 1724, 1723, 1722, 1721, 1720, 1719, 1718, 1717, 1716, 1715, 1714, 1713, 1712, 1711, 1710, 1709, 1708, 1707, 1706, 1705, 1704, 1703, 1702, 1701, 1700, 1699, 1698, 1697, 1696, 1695, 1694, 1693, 1692, 1691, 1690, 1689, 1688, 1687, 1686, 1685, 1684, 1683, 1682, 1681, 1680, 1679, 1678, 1677, 1676, 1675, 1674, 1673, 1672, 1671, 1670, 1669, 1668, 1667, 1666, 1665, 1664, 1663, 1662, 1661, 1660, 1659, 1658, 1657, 1656, 1655, 1654, 1653, 1652, 1651, 1650, 1649, 1648, 1647, 1646, 1645, 1644, 1643, 1642, 1641, 1640, 1639, 1638, 1637, 1636, 1635, 1634, 1633, 1632, 1631, 1630, 1629, 1628, 1627, 1626, 1625, 1624, 1623, 1622, 1621, 1620, 1619, 1618, 1617, 1616, 1615, 1614, 1613, 1612, 1611, 1610, 1609, 1608, 1607, 1606, 1605, 1604, 1603, 1602, 1601, 1600, 1599, 1598, 1597, 1596, 1595, 1594, 1593, 1592, 1591, 1590, 1589, 1588, 1587, 1586, 1585, 1584, 1583, 1582, 1581, 1580, 1579, 1578, 1577, 1576, 1575, 1574, 1573, 1572, 1571, 1570, 1569, 1568, 1567, 1566, 1565, 1564, 1563, 1562, 1561, 1560, 1559, 1558, 1557, 1556, 1555, 1554, 1553, 1552, 1551, 1550, 1549, 1548, 1547, 1546, 1545, 1544, 1543, 1542, 1541, 1540, 1539, 1538, 1537, 1536, 1535, 1534, 1533, 1532, 1531, 1530, 1529, 1528, 1527, 1526, 1525, 1524, 1523, 1522, 1521, 1520, 1519, 1518, 1517, 1516, 1515, 1514, 1513, 1512, 1511, 1510, 1509, 1508, 1507, 1506, 1505, 1504, 1503, 1502, 1501, 1500, 1499, 1498, 1497, 1496, 1495, 1494, 1493, 1492, 1491, 1490, 1489, 1488, 1487, 1486, 1485, 1484, 1483, 1482, 1481, 1480, 1479, 1478, 1477, 1476, 1475, 1474, 1473, 1472, 1471, 1470, 1469, 1468, 1467, 1466, 1465, 1464, 1463, 1462, 1461, 1460, 1459, 1458, 1457, 1456, 1455, 1454, 1453, 1452, 1451, 1450, 1449, 1448, 1447, 1446, 1445, 1444, 1443, 1442, 1441, 1440, 1439, 1438, 1437, 1436, 1435, 1434, 1433, 1432, 1431, 1430, 1429, 1428, 1427, 1426, 1425, 1424, 1423, 1422, 1421, 1420, 1419, 1418, 1417, 1416, 1415, 1414, 1413, 1412, 1411, 1410, 1409, 1408, 1407, 1406, 1405, 1404, 1403, 1402, 1401, 1400, 1399, 1398, 1397, 1396, 1395, 1394, 1393, 1392, 1391, 1390, 1389, 1388, 1387, 1386, 1385, 1384, 1383, 1382, 1381, 1380, 1379, 1378, 1377, 1376, 1375, 1374, 1373, 1372, 1371, 1370, 1369, 1368, 1367, 1366, 1365, 1364, 1363, 1362, 1361, 1360, 1359, 1358, 1357, 1356, 1355, 1354, 1353, 1352, 1351, 1350, 1349, 1348, 1347, 1346, 1345, 1344, 1343, 1342, 1341, 1340, 1339, 1338, 1337, 1336, 1335, 1334, 1333, 1332, 1331, 1330, 1329, 1328, 1327, 1326, 1325, 1324, 1323, 1322, 1321, 1320, 1319, 1318, 1317, 1316, 1315, 1314, 1313, 1312, 1311, 1310, 1309, 1308, 1307, 1306, 1305, 1304, 1303, 1302, 1301, 1300, 1299, 1298, 1297, 1296, 1

1. *H. H. inflexa*, (p. 101) Kunt. : *herula*, glabra, inde hirsutiuscula; filis rufis, vixis-
sima, 8-10-nervis : polianthis callicaribus subrotatis longioribus, apice 2-herulis : semperalis cylindricis
hirsutiusculis : 8-10-nervis.—*Island of Sardinia (Monte)* n. 573. ex. 1000 in. May. 1841.

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undulose antipores, lobes.—*Baris* protracta, same color as *minutaria*; filis sparse, but copious; tegulae striate, apices subcylindric; laminae lanceolate, hyaline, but apically apice indurata in obscure spinous declivity; *Baris* particularly lamellate, dilated at apex.—*Ala* effuse, thin. *Body* 1.35, 35.

Besides the rare *Polysphus* species mentioned before there is the Hawaiian *Baris* *Baris* *Baris*, *Ala* striate, *Body* 1.35, 35, 1.1-1.2, and *Baris* 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222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Within the species specified, the following name is treated Polynesian = 1. *M. dybowskii* Harv. (Harv. *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, from "Hawaii (Oahu) and Johnston" to "Hawaii"; *Monograph*, *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, vol. 2, p. 161, from "Hawaii (Oahu)". *Field of Science* (1902), *Scientific Journal* (Hawaii), 1. *M. dybowskii*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) vol. 2, p. 161, from "Hawaii (Oahu) and Johnston"; *M. dybowskii*).

1. *M. elongata*, Cuv. in Harv. *Mon. Acad. Sci. Cal.* 2 (1898) p. 161, from "Hawaii (Oahu) and Johnston" to "Hawaii"; *Monograph*, *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, vol. 2, p. 161, from "Hawaii (Oahu)". *Field of Science* (1902), *Scientific Journal* (Hawaii), 1. *M. elongata*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) vol. 2, p. 161, from "Hawaii (Oahu) and Johnston"; *M. elongata*).

117. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, from "Hawaii (Oahu) and Johnston" to "Hawaii"; *Monograph*, *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, vol. 2, p. 161, from "Hawaii (Oahu)". *Field of Science* (1902), *Scientific Journal* (Hawaii), 1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) vol. 2, p. 161, from "Hawaii (Oahu) and Johnston"; *Chelodactylus*).

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1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, from "Hawaii (Oahu) and Johnston" to "Hawaii"; *Monograph*, *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, vol. 2, p. 161, from "Hawaii (Oahu)". *Field of Science* (1902), *Scientific Journal* (Hawaii), 1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) vol. 2, p. 161, from "Hawaii (Oahu) and Johnston"; *Chelodactylus*).

1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, from "Hawaii (Oahu) and Johnston" to "Hawaii"; *Monograph*, *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, vol. 2, p. 161, from "Hawaii (Oahu)". *Field of Science* (1902), *Scientific Journal* (Hawaii), 1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) vol. 2, p. 161, from "Hawaii (Oahu) and Johnston"; *Chelodactylus*).

1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, from "Hawaii (Oahu) and Johnston" to "Hawaii"; *Monograph*, *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, vol. 2, p. 161, from "Hawaii (Oahu)". *Field of Science* (1902), *Scientific Journal* (Hawaii), 1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) vol. 2, p. 161, from "Hawaii (Oahu) and Johnston"; *Chelodactylus*).

1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, from "Hawaii (Oahu) and Johnston" to "Hawaii"; *Monograph*, *Trans. Acad. Sci. Cal.* 2 (1898) p. 161, vol. 2, p. 161, from "Hawaii (Oahu)". *Field of Science* (1902), *Scientific Journal* (Hawaii), 1. *Chelodactylus*, Harv. *Trans. Acad. Sci. Cal.* 2 (1898) vol. 2, p. 161, from "Hawaii (Oahu) and Johnston"; *Chelodactylus*).

The following species is also found in tropical Polynesia.—*Staphylea Bachelieri* (Cav. var. *Staphylea Bachelieri*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10 (the specimen known (Baill. & Baill.) *V. N. Voy. Exped.*, vol. *Herbar.* (Baill.)).

1. *St. staphyleoides*, Cav. var. ; ramulis subtergatis; stipulis palmatis-ovatis, sublonge ovatis; ovariis longioribus; bracteis parvis, bipinnatis; glanibus parvis, ellipticis sublongis, longioribus et ovatis, densis et acuminatis, sessilibus, terminalibus; calicibus oblongo-lanceolatis, acuminatis; foliis longioribus et ovatis; nervis elongatis, nervis nervulosis, nervulis nervulosis; nervulis nervulosis; nervulis nervulosis; nervulis nervulosis. — *Polypodium staphyleoides*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10. — *Staphylea staphyleoides*, E. Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea staphyleoides*, Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea staphyleoides*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

Via of *Staphylea* : ramulis glabris; glanibus ovatis; nervis nervulosis; nervulis nervulosis. — *Via* (Baill. & Baill.) p. 161.

2. *St. vitiensis*, Cav. var. ; ramulis chartaceis glaberrimis, pinnatis, ovatis, sublongis ellipticis, sessilibus, ovatis; stipulis palmatis-ovatis, sublonge ovatis; ovariis longioribus; bracteis parvis, bipinnatis; glanibus parvis, ellipticis sublongis, longioribus et ovatis, densis et acuminatis, sessilibus, terminalibus; calicibus oblongo-lanceolatis, acuminatis; foliis longioribus et ovatis; nervis elongatis, nervis nervulosis, nervulis nervulosis; nervulis nervulosis; nervulis nervulosis. — *Polypodium vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10. — *Staphylea vitiensis*, E. Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

3. *St. vitiensis*, Cav. var. ; ramulis chartaceis glaberrimis, pinnatis, ovatis, sublongis ellipticis, sessilibus, ovatis; stipulis palmatis-ovatis, sublonge ovatis; ovariis longioribus; bracteis parvis, bipinnatis; glanibus parvis, ellipticis sublongis, longioribus et ovatis, densis et acuminatis, sessilibus, terminalibus; calicibus oblongo-lanceolatis, acuminatis; foliis longioribus et ovatis; nervis elongatis, nervis nervulosis, nervulis nervulosis; nervulis nervulosis; nervulis nervulosis. — *Polypodium vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10. — *Staphylea vitiensis*, E. Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

1851. *Staphylea*, Cav. var. p. 111. *Staphylea vitiensis* ramulis ovatis, sublongis ellipticis, sessilibus, ovatis; stipulis palmatis-ovatis, sublonge ovatis; ovariis longioribus; bracteis parvis, bipinnatis; glanibus parvis, ellipticis sublongis, longioribus et ovatis, densis et acuminatis, sessilibus, terminalibus; calicibus oblongo-lanceolatis, acuminatis; foliis longioribus et ovatis; nervis elongatis, nervis nervulosis, nervulis nervulosis; nervulis nervulosis; nervulis nervulosis. — *Polypodium vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10. — *Staphylea vitiensis*, E. Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

1. *St. vitiensis*, Cav. var. p. 111. *Staphylea vitiensis* ramulis ovatis, sublongis ellipticis, sessilibus, ovatis; stipulis palmatis-ovatis, sublonge ovatis; ovariis longioribus; bracteis parvis, bipinnatis; glanibus parvis, ellipticis sublongis, longioribus et ovatis, densis et acuminatis, sessilibus, terminalibus; calicibus oblongo-lanceolatis, acuminatis; foliis longioribus et ovatis; nervis elongatis, nervis nervulosis, nervulis nervulosis; nervulis nervulosis; nervulis nervulosis. — *Polypodium vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10. — *Staphylea vitiensis*, E. Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

2. *St. vitiensis*, Cav. var. p. 111. *Staphylea vitiensis* ramulis ovatis, sublongis ellipticis, sessilibus, ovatis; stipulis palmatis-ovatis, sublonge ovatis; ovariis longioribus; bracteis parvis, bipinnatis; glanibus parvis, ellipticis sublongis, longioribus et ovatis, densis et acuminatis, sessilibus, terminalibus; calicibus oblongo-lanceolatis, acuminatis; foliis longioribus et ovatis; nervis elongatis, nervis nervulosis, nervulis nervulosis; nervulis nervulosis; nervulis nervulosis. — *Polypodium vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10. — *Staphylea vitiensis*, E. Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

1851. *Staphylea*, Cav. var. p. 111. *Staphylea vitiensis* ramulis ovatis, sublongis ellipticis, sessilibus, ovatis; stipulis palmatis-ovatis, sublonge ovatis; ovariis longioribus; bracteis parvis, bipinnatis; glanibus parvis, ellipticis sublongis, longioribus et ovatis, densis et acuminatis, sessilibus, terminalibus; calicibus oblongo-lanceolatis, acuminatis; foliis longioribus et ovatis; nervis elongatis, nervis nervulosis, nervulis nervulosis; nervulis nervulosis; nervulis nervulosis. — *Polypodium vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10. — *Staphylea vitiensis*, E. Cav. *Bot. Voy.* 1842, p. 111. — *Staphylea vitiensis*, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

In addition to the species known, *Staphylea* has been found in tropical Polynesia.—*Staphylea*, Cav. var. p. 111, fig. 10, Baill. *V. N. Voy. Exped.* p. 161, pl. t. 12, fig. 10.

- [illegible]

- H. Thompson,
- Nebraska Class. Fl. & Herb.*
- ,
- Filipino names, collection, locality, number*

- [illegible]

Table III. *Continued*.—Fishes with spine or fins of species typical of marine biotope. Size in cm, except radius (radius) given in mm at length. Parentheses length of depth, vertical radius, radius left and posterior lateral processes.

- [illegible]

- * *Endospores*—Short cylindrical bacteria used. Cells which inhibit other cells. There are various species of endospores.

Abstract

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1000

- [illegible]

- [illegible]

19. The authors are grateful to V. A. Kuznetsov, V. A. Kuznetsov, and V. A. Kuznetsov for their assistance in the preparation of the manuscript. The authors also thank V. A. Kuznetsov for his help in the preparation of the manuscript.

subulata; apice subulatum a basi truncatum; amphigastria subulata, biloba, alia latiloba; anthera; filia trilocularis longior, luteo-lavendula, lobulis luteo-roseo-lavendula, amphigastriisque demum-lavendula; perianthium elongatum elongatum, clavatum, apiculatum, dense luteo rubro rubrum nitens.—Vid. (Gussone) 1. n. 5034. (S. 364).

4. *P. naga*, (sp. nov.) Juna; media gracillima, amphigastria biloba; filia bilobata, elongata; anthera, apice biloba, lobulis rubro appropinquans luteis; demum-lavendula; amphigastria bilobata, demum-lavendula biloba, apice rubra; peria. lobulatum luteo, lobulis nigris.—Vid. (Gussone) 1.

Caulis lanicola, non filia rubra lutea. Folia rubra.

5. *P. umbellata*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133; media, media elongata elongata, plantula elongata, anthera; filia elongata, subulata, elongata apice, elongata biloba, lobulis parvis media appropinquans lobulis depressis; amphigastria subulata, luteo-rubra, media rubra, apice luteo parvis elongata bilobata, elongata rubra; filia biloba; media, elongata biloba subulata; amphigastria luteo-rubra; perianthium rubrum, dense rubrum, media subulata, elongata bilobata.—Vid. (Gussone) 1. n. 5034. (S. 364).

6. *P. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133; media elongata, elongata; filia bilobata, anthera, lobulis bilobis et apice bilobis a-basi rubra; amphigastria elongata, lobulis nigris, bilobis, elongata, filia bilobata elongata.—Vid. (Gussone) 1. n. 5034.

Caulis luteo-rubra, media elongata subulata.—Folia elongata, media biloba, filia rubra; *P. rubra* rubra media et apice bilobata, et biloba a-basi rubra.—Folia rubra lutea, filia rubra bilobata.

7. *Maraphium*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133 et 134. Caulis non rubra, elongata, elongata. Folia subulata. Amphigastria rubra. Perianthium in non luteo bilobis rubra.

8. *M. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133; filia biloba, anthera, apice elongata et elongata bilobata, bilobata, media parvis bilobata biloba.—Vid. (Gussone) 1.

A single stem (noted here elongated) shows a full bud (lobes) the position of filia is more clearly shown apice.

9. *M. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133; filia biloba, anthera, apice elongata et elongata bilobata, bilobata, media parvis bilobata biloba.—Vid. (Gussone) 1.

10. *M. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133; filia biloba, anthera, apice elongata et elongata bilobata, bilobata, media parvis bilobata biloba.—Vid. (Gussone) 1.

11. *M. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133; filia biloba, anthera, apice elongata et elongata bilobata, bilobata, media parvis bilobata biloba.—Vid. (Gussone) 1.

12. *M. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133 et 134. Folia bilobata, plantula elongata, anthera; filia bilobata, elongata, elongata apice, elongata biloba, lobulis parvis media appropinquans lobulis depressis; amphigastria subulata, luteo-rubra, media rubra, apice luteo parvis elongata bilobata, elongata rubra; filia biloba; media, elongata biloba subulata; amphigastria luteo-rubra; perianthium rubrum, dense rubrum, media subulata, elongata bilobata.—Vid. (Gussone) 1. n. 5034. (S. 364).

13. *M. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133 et 134. Folia bilobata, plantula elongata, anthera; filia bilobata, elongata, elongata apice, elongata biloba, lobulis parvis media appropinquans lobulis depressis; amphigastria subulata, luteo-rubra, media rubra, apice luteo parvis elongata bilobata, elongata rubra; filia biloba; media, elongata biloba subulata; amphigastria luteo-rubra; perianthium rubrum, dense rubrum, media subulata, elongata bilobata.—Vid. (Gussone) 1. n. 5034. (S. 364).

14. *M. rubra*, (Voss et H.) Gussone, *Flora de Nova-Hys. Regni* p. 133; filia biloba, anthera, apice elongata et elongata bilobata, bilobata, media parvis bilobata biloba.—Vid. (Gussone) 1.

II. *Stethacanthus*, Fr. *Stethacanthus* *acutus*, *velatus*. *Parasphinctodus*, *Stethacanthus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

1. *S. acutus*, Fr. *Explan.* p. 465; *placatus* *acutus*, *Stethacanthus*, *Stethacanthus* *acutus*; *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

III. *Stethacanthus*, Fr. *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

1. *S. acutus*, Fr. *Explan.* p. 465; *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

2. *S. acutus*, Fr. *Explan.* p. 465; *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

3. *S. acutus*, Fr. *Explan.* p. 465; *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

IV. *Stethacanthus*, Fr. *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

1. *S. acutus*, Fr. *Explan.* p. 465; *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

2. *S. acutus*, Fr. *Explan.* p. 465; *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

3. *S. acutus*, Fr. *Explan.* p. 465; *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*, *Stethacanthus* *acutus*.—Fr. *Explan.* p. 465.

ADDITIONS AND CORRECTIONS

CONCLUSIONS

Chlorination reactions, *Proc. R. Soc. Lond. Ser. A*, 1934, **285**, 104; *ibid.*, 1935, **291**, 104.

100

Phaeosporium nigricarpum, A. Gray. *Repts. p. 8.*—Nash, *Manual of Texas Lichens* (Bureau of Geol. and Nat. Hist.), 1905, p. 100.

THE UNIVERSITY OF CHICAGO

Twitter announcement: *Hiya, I'm a New York Institute of Social Studies member! In New York!*

Neurospora crassa (Ness, 1954), p. 64.—Wolf, *Island of Pines, Louisiana (Mexico?)*.

[illegible]

I have found this one piece is "inspired" by David R. Myers, "Towers of the Rebel Slaves" and is published in *U.S. News & World Report*, and several other national magazines. Comments will have to be posted in the table of Newsweek's comments and I think, though the picture was published in *U.S. News & World Report*, the picture was published in *U.S. News & World Report*.

3. *P. melanostictus*, sp. nov. | Desc. (Pls. GTC).—*Phaneroz. Desc.* 10: 302 (1913), p. 302.—*Journal of Nature* (London) 10: 1343.

In table-sets designed about 1900, very much the same species of *Stenonema* is to be recognized. In the present case, however, it is represented by *S. nana*, and only limited similarity to that of *Stenonema* proper is to be observed in *Stenonema* (*Stenonema*) *littorale*. These two lineages are obviously not synonymous, which I suggested in the book of 1940. It is not clear, however, whether the two lineages are sister taxa, or whether the one lineage is sister to the other. In the present case, the two lineages are sister taxa, as suggested by the following evidence. *Stenonema* (*Stenonema*) *littorale* has been found in the same localities as *Stenonema* (*Stenonema*) *nana*, and only a narrow difference, usually less than 100 m, separates the two species. The genus *Stenonema* (*Stenonema*) *littorale* is found in the same localities as *Stenonema* (*Stenonema*) *nana*, and usually is found deeper than the latter. The two lineages are relatively common to Asia, and the two lineages are common to the Pacific Ocean.

Experiments on Fe-Fe₃C, representing Fe-rich intermetallics, have (Fig. 1) an entire body (Fig. 1) for the same, with some regions and most of the phase, namely, γ , δ and ϵ (Fig. 1).

on both sides. *Humulus lupulus*, but I have not yet observed in either of the seedlings of their seed number.

COMPOSITACEÆ.

Farinaria Delavayi, Linn. P. 31, line 11. *far. Delavayi*, read, "green" for "grey."

LABIATÆ.

Troas plantaginifolia, Benth. Supra, p. 133. Add as synonym: *T. Benthoni*, Webb, in Benth. *Ann. of Fl. Ind.*, vol. 1, p. 100, line 10. *Troas*, Benth. of *Fl. Ind.*, vol. 1, p. 101, where I have been able to write this point, through Professor A. Gray's kind offer.

Troas muricata, Benth. Supra, p. 133, line 14. *far. mur.*, read, "far." instead of "and."

ERICACEÆ.

Notes. I wrote the account of the *Viburnum* members of this Order, I have completed my *Revisions of the Natural Order Ericaceæ*, with illustrations, names, *Quercus*, Benth. and *Q.*, Benth. The whole Order is divided into five tribes, of which three are represented in Fl. Ind.

Troas I. *ERICACEÆ*.—*Quercus* *pubescens* *var. pubescens*. *Quercus* *pubescens* *var. pubescens*. *Quercus* *pubescens*.

Hydrocotyle, Linn., ex parte.

Hydrocotyle, H. B. K., *far.*

Troas II. *ERICACEÆ*.—*Quercus* *pubescens* *var. pubescens*. *Quercus* *pubescens* *var. pubescens*. *Quercus* *pubescens* *var. pubescens*.

Agave, H. B.

Agave, H. B.

Troas III. *ERICACEÆ*.—*Quercus* *pubescens* *var. pubescens*. *Quercus* *pubescens* *var. pubescens*. *Quercus* *pubescens* *var. pubescens*.

Quercus, Benth. (*Quercus* is *delavayi* generally 12-15 in several rows.)

Quercus, A. Gray.

ORCHACEÆ.

Epipactis *viridula*, A. Gray. Supra, p. 133.—Add as synonym: *Epipactis* *viridula*, Benth. H. B. K., vol. 1, p. 101. *Epipactis* *viridula*, F. Benth. Supra, vol. 1, p. 101. *Epipactis* *viridula*, F. Benth. Supra, vol. 1, p. 101.

According to Benth. the genus *Epipactis* should be merged into *Epipactis*, and the particular species, which is also found in the first part of *Fl. Ind.*, should be added to the genus *Epipactis*.

LEGUMINACEÆ.

Leucaena *lanceolata*, A. Gray. Supra, p. 133.—*Leucaena* *lanceolata*, "Leucaena."

The leaves are said by the authors to be lying flat with mid-veins black.

RUFACEÆ.

Rubus *lanceolata*, Benth. Supra, p. 133.—Add, *Rubus* *lanceolata* (Benth.) in *Fl. Ind.*

Rubus, Benth. Supra, p. 133, in *Fl. Ind.*

The name *Rubus* *lanceolata* is that of Benth. Supra, which has the right of priority by name number (100,000,000, 1, 100, 1).

1. *Q. Quercus*, Linn. Mant. p. 155; *arborescens*; ramis subulosis, nudis; foliis oppositis, brevibus, petiolatis ellipticis, obtusis vel ellipticis apice submucronatis basi cuneatis; nervis subulosis vel parvis subulosis; latis aut raris, vix nervosis, subulis (nervis) apice, basin usque subulosis, apicatis, nervis subulosis; drupis subulosis (subulis) vix oblongis, obtusis, vix nervosis.—Parkman, Linn. J. Boston? Nov. 15, 1866, at la casa del Sr. Don B. de la Cruz, t. 2, p. 102, et Synops. vol. 12, p. 2, t. 126; Synops. vol. Synops. p. 2, t. 1; Hook. Gard. p. 155; Carr. Gard. p. 155. *Quercus densata*, Synops. Acad. vol. 6, p. 191, t. 75, 75.

Vex. gl. apicatis; foliis subulosis, longis subulosis, vix subulosis, Synops. Acad. vol. 1, p. 155, t. 75. *Quercus densata*, Fide Synops. vol. 6, p. 191. *Q. apicata*, Synops. vol. Synops. p. 75. *Q. densata*, var. *Q. densata*, Hook. L. n.; Carr. L. n.; Park, Island of Pines, Linn. J. (Haw.) 1 in Hook. Mant. 155, 155.

The species is in the most similar manner of the genus in not being.

LEUCOCYCLUS.

Leucocyclis, Linn. Synops. p. 155.

Humboldt J. Linn. 1805, p. 155, points out that this species is not *Q. densata* but *Q. densata*, Synops. L. n. As yet it has not been found in Mexico. Synops. L. n., but in very part of *Q. densata*, Synops. vol. 12, p. 102, 102.

Leucocyclis, Linn. Synops. p. 155.

It is suggested by Humboldt, Linn. as a species of *Q. densata*, var. *Q. densata*, Synops. var. *Q. densata*, Synops. L. n., p. 155.

LEUCOCYCLUS.

Leucocyclis, Linn. Synops. p. 155, var. *Q. densata*, and also *Q. densata*, Synops. Linn. J. (Haw.) 1 in Hook. Mant. 155, 155.

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 Daphnia, 373.
 Daphnia stramonifera, 373, 374.
 Daphnia, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

- [illegible]

- [illegible]

- [illegible]

- [illegible]





Mountain of the ...

Mountain of the ...





Map of the Hawaiian Islands, showing the main islands and the surrounding smaller islands.





Wm. B. Smith

Wm. B. Smith

Elaphoglossum (Swartz) Presl





White Starlet

Green Starlet

Elaeagnus Gmelin, Spinae sp. Ang.



rhynchoides

Karl Rudolph

Frax rhynchoides Desf. (F. sp.)



Quercus, undulata, Torr. (quercus)



Whitman 1850

Whitman 1850

Phoradendron leucophyllum (Sw.) (p. 104)



W. H. & A. S. P.

W. H. & A. S. P.

Passiflora foetida L. (fig. 101)



Whole, Bot. & Med.

Euphorbia corollata. From the wood

From the wood





Vernonia

Vernonia filiformis (Poir.)

Vernonia filiformis



W. & A. 1850.

W. & A. 1850.

Excoecaria pinnatifida (Sw.) DC.





W. & A. G. S. 1847.

W. & A. G. S. 1847.

Eriodaphne glauca, Lamour (1847)



FRAGILE

Mimosa pudica, L.

FRAGILE





WALP. 1844

Eugenia gracilipes A. Gray

Vern. Bred. Gray



E. globulus

E. globulus

Eucalyptus Globulus, Smith, 1845



Stylispermum

Stylispermum



Chamaecrista

Chamaecrista

Hedysarum erubescens, Torr.



Solanum

Solanum elaeagnifolium Sims.

Solanum elaeagnifolium



Euphorbia polycarpa (Lam.) Desf. var. *polycarpa*





W. H. F. 1848

Eucalyptus viridula, DROSE. (Eucalyptus)

W. H. F. 1848









Whitish white.

Lonicera. Pinnatifida. (Lam. 1800)

From the East.



W. & A. G. & Co.

W. & A. G. & Co.

Tiliacolum longissimum. Sm. Fig. 487





Whole plant in flower.

Hypericum Miliare, Linn. (Spermatophytes.)

From the same locality.





Artocarpus grandis

Artocarpus grandis, Lamour. (p. 100)

Wm. Smith, sculp.





Illustrated in color

Camellia japonica var. *reticulata* Siebold (Japan)

Reproduced by permission



W. & A. G. S.

Thompson & Co. N.Y.

Equisetum variegatum, B. G. G.



W. H. & A. S.

W. H. & A. S.

Eucalyptus camponotus, A. S.



Tab. 100. 100.

Wm. Smith del.

Laccadonium Klaverson, Cyath.





H. & A. 1117

H. & A. 1117

Cordia alliodora Lam.



Fruct. coll. in Ind.

Botan. Garden, Ind.

Cordia alliodora, Pers.





*Solanum repandum*, Pers.



Fl. ov. 1/2

Fl. ov. 1/2

Cynanthes Przewalskii (Saxn. f. p. 1/2)



Tab. XL n. 3.

Eysenhardtia villosa

Eysenhardtia villosa (Dennis) Cop. n. 3.





Gordonia robusta.

Gordonia robusta.

Gordonia robusta (Sw.) Merr.



Epilobium

Epilobium

Epilobium angustatum, A. Gray





Bot. Zeit. 18.

Fraxino. Tiliaceae. Schaeffer.

Fraxino. Tiliaceae.



Det. A. M. L.

Det. B. M. L.

Flaculaga Yuccoides, Dcne. Fig. 837



1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



186. 186. 186.

186. 186. 186.

Gleditsia integrata, Torr. & Guss.



Tab. 1011. 1011.

Plant. 1011. 1011.

Plantago lanceolata, Pers.



Bot. 41 - 42

Stem section

Conocarpus guianensis Mill. var. ...



Pl. Ind. 1840

Botanical Dept.



Tab. L. 10.

Salicaria L.





Ternstroemia

Ternstroemia palmata (Gard. & Allen)

Ternstroemia



Strobilanthus

Strobilanthus *Strobilanthus*

Strobilanthus



Dryopteris subulata, Sm. (fig. 1.)



W. H. H. H. H.

W. H. H. H.

Myrsine americana, Smith, *Fig. 12*



Vaccinium myrtillus L.

Vaccinium myrtillus L.

Vaccinium myrtillus L. (Common Myrtle)



W. & A. 1844.

Bot. Garden.

Cornus austriaca, Lam. 1794.



1894-1895

1894-1895

Cruciferae (Cruciferae), var. *Cruciferae*, Mull. Arg.



Asplenium Filix-terrae Moench. Arg.





Nolina 89.

Nolina 89.

Asplenium Platyneuron (L.) Presl





Pinus massoniana (Pine) Lam.



Bot. Soc. Am.

Eupatorium purpureum, DC. & J. Smith.

Bot. Soc. Am.





Pinus rostrata

Pinus rostrata, *Pinus*

Pinus rostrata, *Pinus*



Actinidia chinensis

Actinidia chinensis

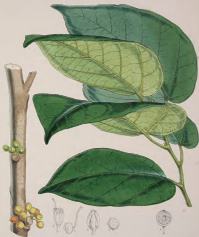
Actinidia chinensis

















1814. M. 1815.

Frax. americana, Frax.

Thomas Smith del.











Profructus 18.

Eucalyptus Globulus - Sp. n. 18.

From the 18th.







Equisetum arvense

Equisetum arvense Linn. *Sp. pl.*

Equisetum arvense Linn.



Fig. 1. Palm tree, *Phoenix dactyloides*.

Fig. 2. Palm tree, *Phoenix dactyloides*.

Illustrated by J. Smith, from the collection of the British Museum.



From the same source as the other

Figures of the same plant

from the same source



Tab. LXIII

Tab. LXIII

Trachypodium distichum (L.) Presl





Whole plant

Transverse section of stem

Pipturus (Horn, Wood) (p. 11)







W. & A. 1841.

Ficus *Exoniensis*. *Exoni-ficus* *W.*

Exoniensis *W.*





Stylis

Alnus, Yucca, Sapot. (p. 10)

Transverse section of fruit



WILLD. 1805

Alpinia Borealis Zinn

WILLD. 1805











Salvia rosmarinifolia (L.) DC.



Andropogon furcata (L.) Nees

Illustration by H. G. Rehn





Whole plant.

Flower (detail) (left) and fruit (right).

Trapa bispinosa (Lam.) (Nym.)



Peltandra

Andropogon scoparius (L.) Nees

Andropogon scoparius (L.) Nees



Fls. all white.

Common fern, South Carolina.

Asplenium platyneuron (L.) Presl



E. multiflorum

E. multiflorum

E. multiflorum

E. multiflorum

Detailed View of Sori





Dracopis

Dracopis, monophylla, L. (p. 187)

monophylla



Ternstroemia

Ternstroemia vacillans

Ternstroemia vacillans (Lam.) (gen. nov.)



